

# Product Catalog

Functional profiling each cell type across a large assay menu of single-cell, population, and software solutions with walk-away automation



# Contents

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## IsoLight



### IsoLight System

Automate your entire proteomics workflow with one system in a walk-away manner. The IsoLight is a hub for comprehensive proteomic profiling of each cell type across a large assay menu of single-cell and population chip and software products. With one instrument and companion analysis software, achieve functional immune profiling at single-cell level, analyze intracellular signaling omics, and run high-plex automated immunoassays. The entire multiplexed ELISA workflow is completely automated and hands-off to allow maximum laboratory multitasking. Just add your sample and walk away, achieving fully analyzed data on the same day. No more ELISA washing and incubation stations, no centrifuge, no vortexer, and no plate reader. All of your proteomic needs are integrated into the completely automated IsoLight system.

**01**

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## IsoSpark



### IsoSpark System

The IsoSpark is a personalized functional proteomics system for every lab. Accelerate personalized medicine across research areas & high-impact applications, all in one intuitive system that fits on any lab bench. Across all applications, discover direct functional profiling of single-cell and bulk population insights with walk-away automation.

**03**

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## IsoSpeak



### IsoSpeak Software

IsoSpeak is the first automated informatics suite for advanced, functional, cellular mapping and visualizations which can reveal correlative insights into true, functional immune biology. IsoSpeak's push-button user interface and advanced automation allows users to visualize, target, and utilize data from direct functional proteomic profiling of single cells and bulk populations.

**06**



## Single-Cell Secretome

The Single-Cell Secretome solution enables the discovery of better biomarkers and accelerated development through functional immune landscaping of each immune cell, allowing for complete single-cell functional characterization. Detect rare subsets of “super cells” to reveal functional biological drivers of persistence, potency, durability and more.

**08**

## Single-Cell Intracellular Proteome

The Single-Cell Intracellular Proteome for intracellular signaling omics provides functional characterization of the signaling networks and resistance pathways of cancer cells for the development of improved treatments to combat therapeutic resistance.

**11**

## Single-Cell Metabolome

IsoPlexis’ multi-omics (metabolomics + functional proteomics) provide a critical and uniquely capable tool for addressing functional and metabolic changes that accompany adaptive resistance development. Through the use of IsoPlexis’ multi-omic energy state application, independent trajectories to drug tolerance can be revealed, enabling researchers to better develop combination therapies to combat this drug-resistant cell state and prevent drug resistance.

**13**



## CodePlex Secretome

With high-plex walk-away immunoassays, unleash super-powered and super-automated multiplexed proteomics in very low sample volumes to access insights right away. With a faster and more streamlined approach to generating multiplexed bulk cytokine data via a fully automated workflow, CodePlex offers a modular solution to bulk cytokine data analysis and minimizes variability from user input.

**14**

## CodePlex Intracellular Proteome

IsoPlexis’ CodePlex solution is helping researchers by providing a faster and more streamlined approach to generating intracellular proteomics data via a fully automated end-to-end workflow. It does this by offering a modular solution to bulk phosphoprotein data analysis and minimizing variability from user input.

**17**

# ISOLIGHT SYSTEM

Automate your entire proteomics workflow with one system in a walk-away manner. The IsoLight is a hub for comprehensive proteomic profiling of each cell type across a large assay menu of single-cell and population chip and software products. With one instrument and companion analysis software, achieve functional immune profiling at single-cell level, analyze intracellular signaling omics, and run high-plex automated immunoassays. The entire multiplexed ELISA workflow is completely automated and hands-off to allow maximum laboratory multitasking. Just add your sample and walk away, achieving fully analyzed data on the same day. No more ELISA washing and incubation stations, no centrifuge, no vortexer, and no plate reader. All of your proteomic needs are integrated into the completely automated IsoLight system.



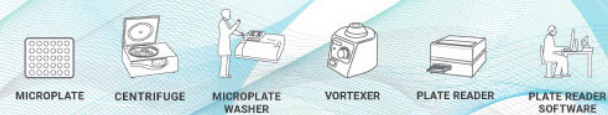
Class 1 Laser Product

## Highly Multiplexed Proteomics: Now a lot more accessible

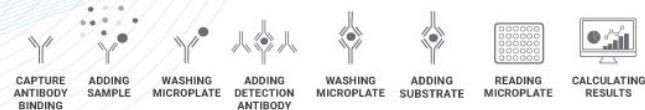
### TRADITIONAL WORKFLOW

- Instrumentation bottlenecks
- Multiple personnel needed
- Long wait-time for data analysis
- Increased costs

### Multiple Instruments Needed



### Multiple Manual Workflow Steps



Automate your entire workflow with one system.

## One instrument. One workflow step.

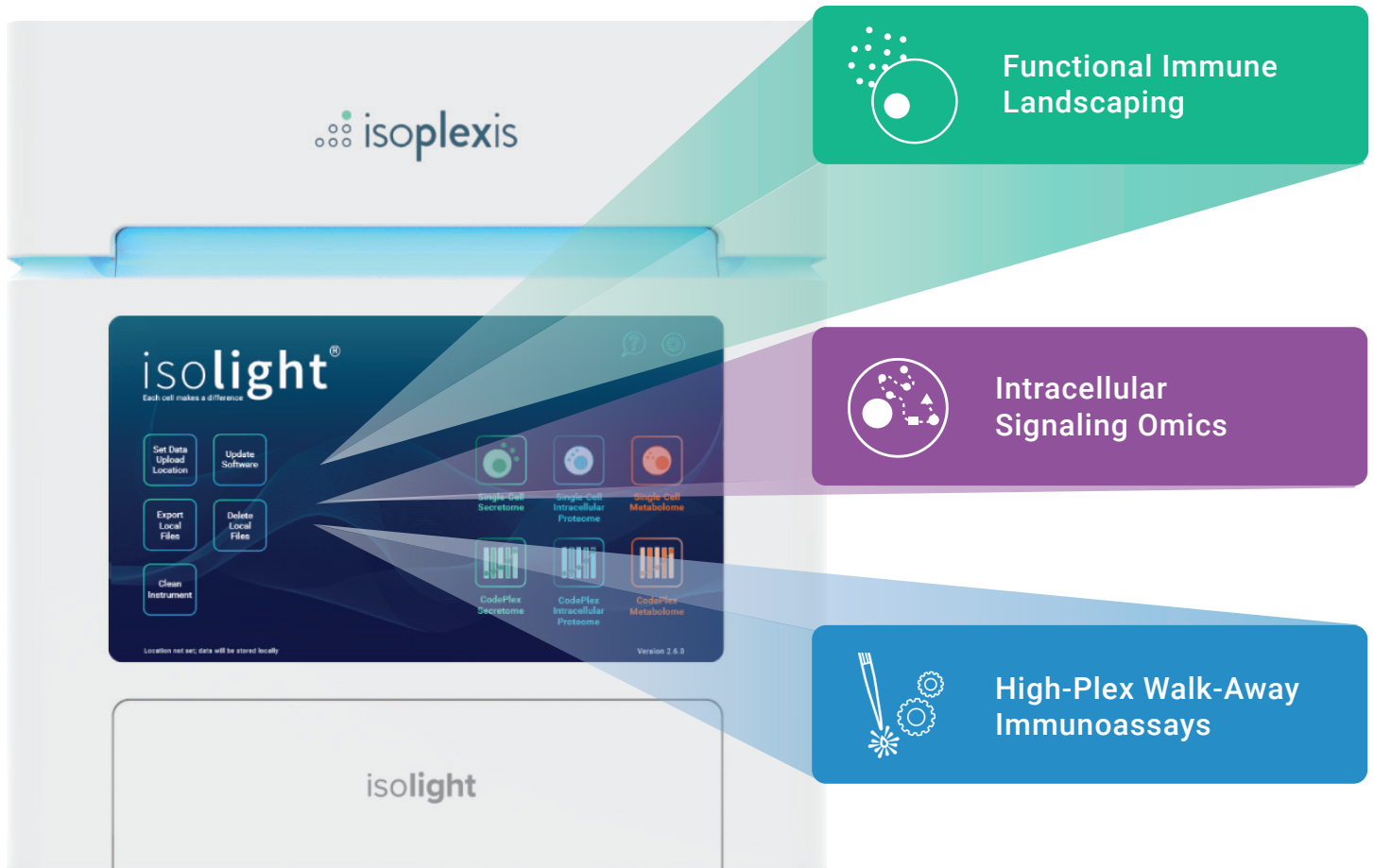
### THE ISOLIGHT

- Unlock data immediately, one workflow step
- Red Dot award winning design
- Accelerated insight with plug and play software
- Lower cost per run and total instrumentation



# Harnessing the Most Powerful Cells to Personalize Immune Medicine

## Three Unique Applications with Unique Value on One System



PRODUCT	PRODUCT CODE
IsoLight System	ISOLIGHT-1000-1
IsoLight Service Agreement – 1 year	SVCISL-1000-1
IsoLight Service Agreement – 2 years	SVCISL-1000-2
IsoLight Service Agreement – 3 years	SVCISL-1000-3

### RESEARCH AREAS

- Cancer Immunology
- Cell Therapy
- Infectious Disease
- Inflammation
- Targeted Therapies

### ADDITIONAL RESOURCES

PUBLICATIONS - [isoplexis.com/publications](https://isoplexis.com/publications)

LITERATURE - [isoplexis.com/literature](https://isoplexis.com/literature)

PROTOCOLS - [isoplexis.com/protocols](https://isoplexis.com/protocols)

# ISOSPARK SYSTEM

The IsoSpark is a personalized functional proteomics system for every lab. Accelerate personalized medicine across research areas & high-impact applications, all in one intuitive system that fits on any lab bench. Across all applications, discover direct functional profiling of single-cell and bulk population insights with walk-away automation.



Class 1 Laser Product

## Superpowered Functional Proteomics for Every Lab

Discover the right system for your lab's throughput and immune landscaping needs.

### isospark

A personalized proteomics system for any lab

18.0"

### isospark duo

An advanced setup for complete functional immune landscaping

38.0"



# Intuitive Design

Elegantly designed with an intuitive user interface for ease-of-use and simplicity, completely automated for walk-away proteomics.



## Reagent Bay

Load your reagents with a single-use cartridge for ultimate ease-of-use.



## LED Status Bar

Instantly know the status of your experimental run with a quick glance.



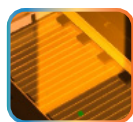
## Touch Screen UI

Award winning ease-of-use, now available on the IsoSpark.



# Engineering Innovations

Combining superpowered innovations into a system with just 18 inches in footprint for ease-of-use and same day insights.



## Software-Enabled Optics

Multi-colored lasers enable sensitive and precision imaging of each cell via surface fluorescence, enabling quantitative detection of proteins associated with each single cell.



## Fluidics-Enabled Flow Cells

Our fluidics-enabled flow cell allows us to deliver the highest quality ELISA reagents with uniform flow in a completely hands-off manner, maximizing consistency.



## Deep Hardware Connection with the Software

Access the most efficient lab collaboration tool with advanced figures and export features that help drive decisions across the organization.

Currently available for pre-order in North America & Europe

PRODUCT	PRODUCT CODE
IsoSpark System	ISOSPARK-1000-1
IsoSpark Service Agreement – 1 year	SVCISS-1000-1
IsoSpark Service Agreement – 2 years	SVCISS-1000-2
IsoSpark Service Agreement – 3 years	SVCISS-1000-3
IsoSpark Duo	ISOSPARK-1001-1
IsoSpark Duo Service Agreement – 1 year	SVCISS-1000-4
IsoSpark Duo Service Agreement – 2 years	SVCISS-1000-5
IsoSpark Duo Service Agreement – 3 years	SVCISS-1000-6

## RESEARCH AREAS

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- Cancer Immunology
- Cell Therapy
- Infectious Disease
- Inflammation
- Targeted Therapies

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# ISOSPEAK SOFTWARE

IsoSpeak is the first automated informatics suite for advanced, functional, cellular mapping and visualizations which can reveal correlative insights into true, functional immune biology. IsoSpeak's push-button user interface and advanced automation allows users to visualize, target, and utilize data from direct functional proteomic profiling of single cells and bulk populations.



## Unique Visualization Options



Polyfunctional Heat Map



3D Cytokine Mapping tSNE



Polyfunctional Strength Index



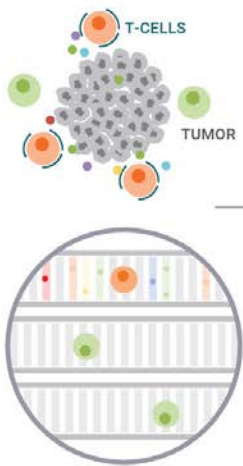
Polyfunctional Heat Map

# Single-Cell Cytokine Visualizations Within IsoSpeak Software: Stratify, Correlate, & Gather Insight By Revealing Differences

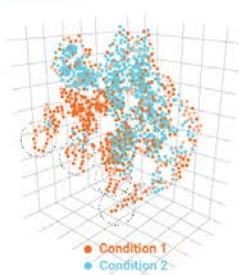
## UNCOVER TRUE BIOLOGY

Responders: 15  
Non-responders: 15

Source of differences in patient response?



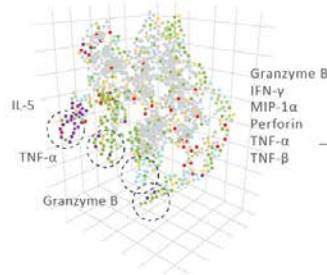
## STRATIFY SAMPLES



## REVEAL FUNCTIONAL DIFFERENCES

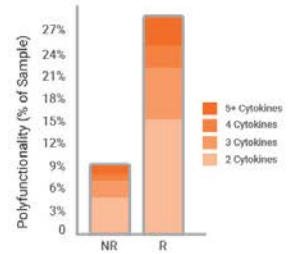


## PINPOINT THE BIOLOGICAL DRIVERS

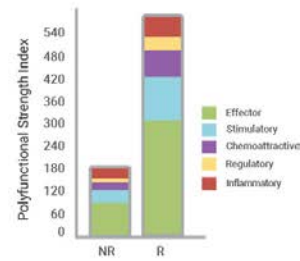


## REVEAL SIGNIFICANCE

Multiplexed Cells:  
% Polyfunctional Single T-Cells



Polyfunctional Strength Index:  
PSI = Polyfunctionality x Intensity



### PRODUCT

IsoSpeak Software

### PRODUCT CODE

ISOSPEAK-1000-1

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# SINGLE-CELL SECRETOME

The Single-Cell Secretome solution enables the discovery of better biomarkers and accelerated development through functional immune landscaping of each immune cell, allowing for complete single-cell functional characterization. Detect rare subsets of “super cells” to reveal functional biological drivers of persistence, potency, durability and more.

## Human Adaptive Immune

Granzyme B, IFN- $\gamma$ , MIP-1 $\alpha$ , Perforin, TNF- $\alpha$ , TNF- $\beta$ , GM-CSF, IL-2, IL-5, IL-7, IL-8, IL-9, IL-12, IL-15, IL-21, CCL11, IP-10, MIP-1 $\beta$ , RANTES, IL-4, IL-10, IL-13, IL-22, TGF $\beta$ 1, sCD137, sCD40L, IL-1 $\beta$ , IL-6, IL-17A, IL-17F, MCP-1, MCP-4

## Non-Human Primate Adaptive Immune

TNF- $\alpha$ , MCP-1, IL-2, IL-4, MIP-1 $\beta$ , IL-6, IL-8, IL-1 $\beta$ , RANTES, IFN- $\gamma$ , IP-10, MIP-1 $\alpha$ , MIF, GM-CS

## Mouse Adaptive Immune

Granzyme B, IFN- $\gamma$ , MIP-1 $\alpha$ , TNF- $\alpha$ , GM-CSF, IL-2, IL-5, IL-7, IL-12p70, IL-15, IL-18, IL-21, sCD137, CCL11, CXCL1, CXCL13, IP-10, RANTES, Fas, IL-4, IL-10, IL-13, IL-27, TGF $\beta$ 1, IL-6, IL-17A, MCP-1, IL-1 $\beta$

## Human Innate Immune

IFN- $\gamma$ , MIP-1 $\alpha$ , TNF- $\alpha$ , TNF- $\beta$ , GM-CSF, IL-8, IL-9, IL-15, IL-18, TGF- $\alpha$ , IL-5, CCL11, IP-10, MIP-1 $\beta$ , RANTES, BCA-1, IL-10, IL-13, IL-22, sCD40L, IL-1 $\beta$ , IL-6, IL-12-p40, IL-12, IL-17A, IL-17F, MCP-1, MCP-4, MIF, EGF, PDGF-BB, VEGF

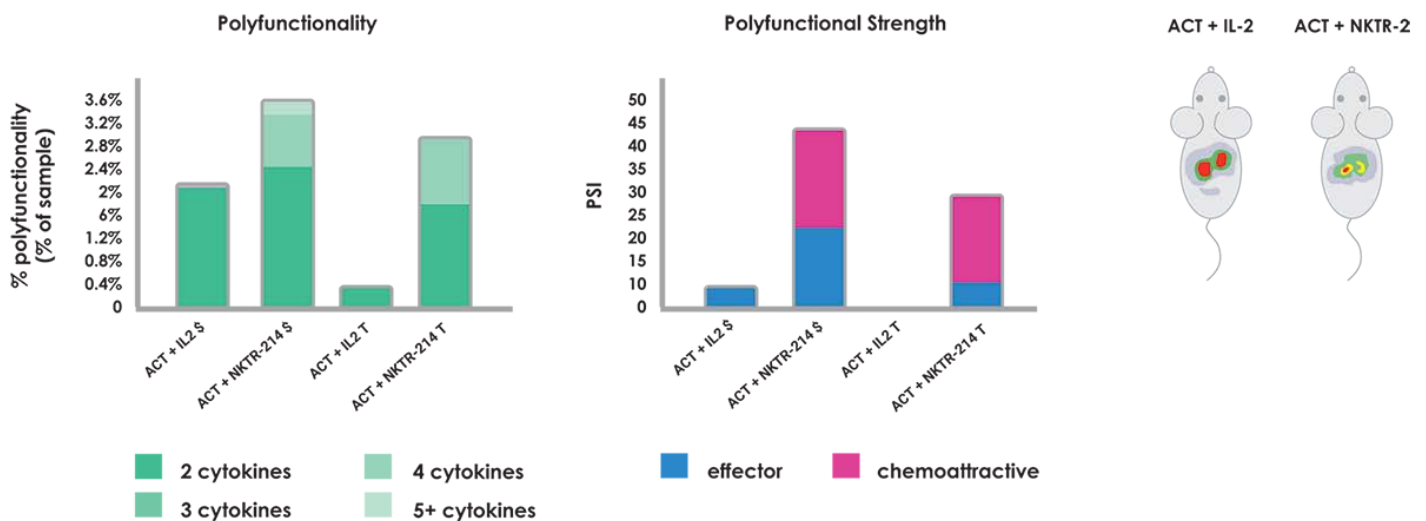
## Human Inflammation

GM-CSF, IFN- $\gamma$ , IL-2, IL-12, TNF- $\alpha$ , TNF- $\beta$ , IL-4, IL-5, IL-7, IL-9, IL-13, CCL11, IL-8, IP-10, MCP-1, MCP-4, MIP-1 $\alpha$ , MIP-1 $\beta$ , RANTES, IL-10, IL-15, IL-22, TGF- $\beta$ 1, IL-1 $\beta$ , IL-6, IL-17A, IL-17F, IL-21, Granzyme B, Perforin, sCD40L, sCD137

Includes **abcam** antibodies



## IsoPlexis' Functional Immune Landscaping Enables Critical Single-Cell Discoveries



Polyfunctionality is considerably increased in samples treated with ACT+NKTR-214 vs ACT+IL-2. NKTR2-14 elicited more polyfunctional cell subsets.

Parisi, G., Saco, J.D., Salazar, F.B. et al. Persistence of adoptively transferred T cells with a kinetically engineered IL-2 receptor agonist. Nat Commun 11, 660 (2020).

ISOCODE CHIPS - ISOLIGHT	PRODUCT CODE
Single-Cell Adaptive Immune Chip – (H) 4	ISOCODE-1001-4
Single-Cell Adaptive Immune Chip – (H) 6	ISOCODE-1001-6
Single-Cell Adaptive Immune Chip – (H) 8	ISOCODE-1001-8
Single-Cell Adaptive Immune Chip – (NHP) 4	ISOCODE-1L05-4
Single-Cell Adaptive Immune Chip – (NHP) 6	ISOCODE-1L05-6
Single-Cell Adaptive Immune Chip – (NHP) 8	ISOCODE-1L05-8
Single-Cell Adaptive Immune Chip – (M) 4	ISOCODE-1004-4
Single-Cell Adaptive Immune Chip – (M) 6	ISOCODE-1004-6
Single-Cell Adaptive Immune Chip – (M) 8	ISOCODE-1004-8
Single-Cell Inflammation Chip – (H) 4	ISOCODE-1003-4
Single-Cell Inflammation Chip – (H) 6	ISOCODE-1003-6
Single-Cell Inflammation Chip – (H) 8	ISOCODE-1003-8
Single-Cell Innate Immune Chip – (H) 4	ISOCODE-3L02-4
Single-Cell Innate Immune Chip – (H) 6	ISOCODE-3L02-6
Single-Cell Innate Immune Chip – (H) 8	ISOCODE-3L02-8

ISOCODE CHIPS - ISOSPARK	PRODUCT CODE
Single-Cell Adaptive Immune Chip – (H) 2	ISOCODE-1001-2
Single-Cell Adaptive Immune Chip – (H) 4	ISOCODE-1001-4
Single-Cell Adaptive Immune Chip – (NHP) 2	ISOCODE-1L05-2
Single-Cell Adaptive Immune Chip – (NHP) 4	ISOCODE-1L05-4
Single-Cell Adaptive Immune Chip – (M) 2	ISOCODE-1004-2
Single-Cell Adaptive Immune Chip – (M) 4	ISOCODE-1004-4
Single-Cell Inflammation Chip – (H) 2	ISOCODE-1003-2
Single-Cell Inflammation Chip – (H) 4	ISOCODE-1003-4
Single-Cell Innate Immune Chip – (H) 2	ISOCODE-3L02-2
Single-Cell Innate Immune Chip – (H) 4	ISOCODE-3L02-4

PANELS - ISOLIGHT	PRODUCT CODE
Single-Cell Adaptive Immune Panel – (H) 4	PANEL-1001-4
Single-Cell Adaptive Immune Panel – (H) 6	PANEL-1001-6
Single-Cell Adaptive Immune Panel – (H) 8	PANEL-1001-8
Single-Cell Adaptive Immune Panel – (NHP) 4	PANEL-1L05-4
Single-Cell Adaptive Immune Panel – (NHP) 6	PANEL-1L05-6
Single-Cell Adaptive Immune Panel – (NHP) 8	PANEL-1L05-8
Single-Cell Adaptive Immune Panel – (M) 4	PANEL-1004-4
Single-Cell Adaptive Immune Panel – (M) 6	PANEL-1004-6
Single-Cell Adaptive Immune Panel – (M) 8	PANEL-1004-8
Single-Cell Inflammation Panel – (H) 4	PANEL-1003-4
Single-Cell Inflammation Panel – (H) 6	PANEL-1003-6
Single-Cell Inflammation Panel – (H) 8	PANEL-1003-8
Single-Cell Innate Immune Panel – (H) 4	PANEL-3L02-4
Single-Cell Innate Immune Panel – (H) 6	PANEL-3L02-6
Single-Cell Innate Immune Panel – (H) 8	PANEL-3L02-8

PANELS - ISOSPARK	PRODUCT CODE
Single-Cell Adaptive Immune Panel – (H) 2	S-PANEL-1001-2
Single-Cell Adaptive Immune Panel – (H) 4	S-PANEL-1001-4
Single-Cell Adaptive Immune Panel – (NHP) 2	S-PANEL-1L05-2
Single-Cell Adaptive Immune Panel – (NHP) 4	S-PANEL-1L05-4
Single-Cell Adaptive Immune Panel – (M) 2	S-PANEL-1004-2
Single-Cell Adaptive Immune Panel – (M) 4	S-PANEL-1004-4
Single-Cell Inflammation Panel – (H) 2	S-PANEL-1003-2
Single-Cell Inflammation Panel – (H) 4	S-PANEL-1003-4
Single-Cell Innate Immune Panel – (H) 2	S-PANEL-3L02-2
Single-Cell Innate Immune Panel – (H) 4	S-PANEL-3L02-4

## RESEARCH AREAS

- Cancer Immunology
- Cell Therapy
- Infectious Disease
- Inflammation
- Targeted Therapies

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# SINGLE-CELL INTRACELLULAR PROTEOME

The Single-Cell Intracellular Proteome for intracellular signaling omics provides functional characterization of the signaling networks and resistance pathways of cancer cells for the development of improved treatments to combat therapeutic resistance.

### Human Tumor Signaling

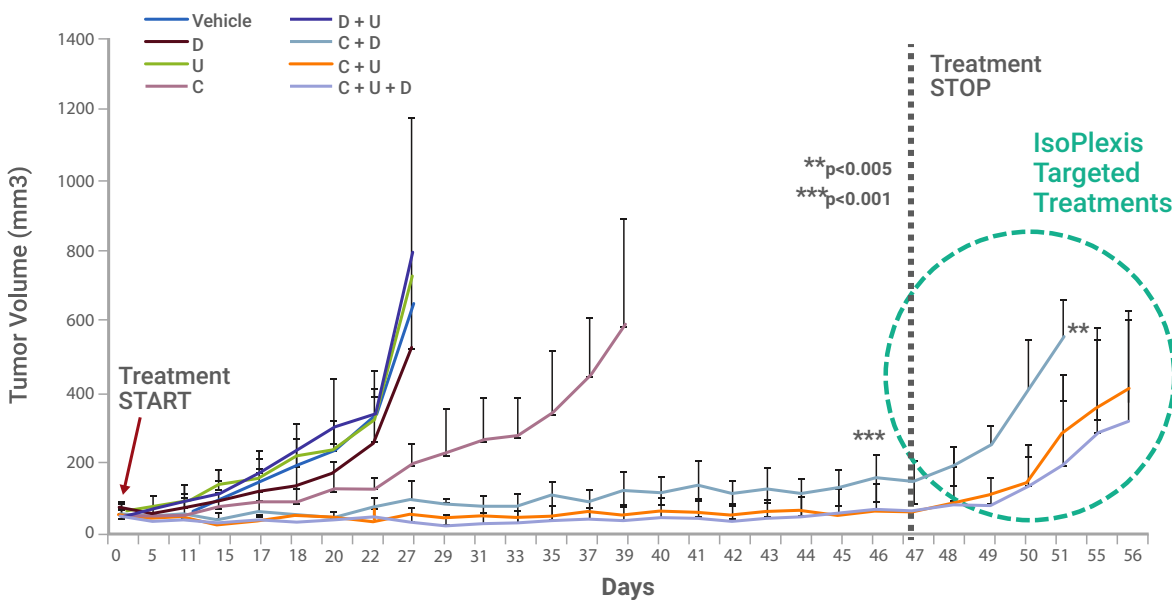
P-PRAS40, P-IkBa, P-NF-kβ p65, P-Met, P-p44/42 MAPK, P-S6 Ribosomal, PRb, P-p90RSK, P-STAT3, P-MEK1/2, P-Stat1, P-Stat5, P-eIF4E, Cleaved PARP, Alpha Tubulin

### Human Adaptive Immune (Coming Soon)

P-Akt, P-p53, P-PD1, P-LCK, P-CD3 zeta, P-Zap70, P-CCR7, P-CD28, P-41BB, P-MEK 1/2, P-P44/42 MAPK (ERK1/2), P-Jak1, P-Jak2, P-AMPK, P-PI3K, PmTOR, P-P21, P-LAT, P-NF-kB p65, Alpha Tubulin



## Prediction and Treatment of Resistance in Tumor Cells in Pre-Clinical Studies



Single-cell intracellular proteome identified rare intracellular signatures and rare subsets of cells that lead to resistance in glioblastoma. These signatures correlated with better therapies, leading to longer term survival in mouse models.

Wei W et al. Single-Cell Phosphoproteomics Resolves Adaptive Signaling Dynamics and Informs Targeted Combination Therapy in Glioblastoma., Cancer Cell, 29:4 563-573, 2016

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- Cancer Immunology
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ISOCODE CHIPS	PRODUCT CODE
Single-Cell Intracellular Chips – 4	ISOCODE-4L01-4

PANELS - ISOLIGHT	PRODUCT CODE
Single-Cell Intracellular Tumor Signaling Panel – (H) 4	PANEL-4L01-4

PANELS - ISOSPARK	PRODUCT CODE
Single-Cell Intracellular Tumor Signaling Panel – (H) 4	S-PANEL-4L01-4



## SINGLE-CELL METABOLOME

IsoPlexis' multi-omics (metabolomics + functional proteomics) provide a critical and uniquely capable tool for addressing functional and metabolic changes that accompany adaptive resistance development. Through the use of IsoPlexis' multi-omic energy state application, independent trajectories to drug tolerance can be revealed, enabling researchers to better develop combination therapies to combat this drug-resistant cell state and prevent drug resistance.

### Human Tumor Metabolome (Coming Soon)

P-PRAS40, P-IkBa, P-NF-k $\beta$  p65, P-Met, P-p44/42 MAPK, P-S6 Ribosomal, P-Rb, P-p90RSK, P-Stat3, P-MEK1/2, P-Stat1, P-Stat5, P-elf4E, Cleaved PARP, Alpha Tubulin, Glucose-Biotin



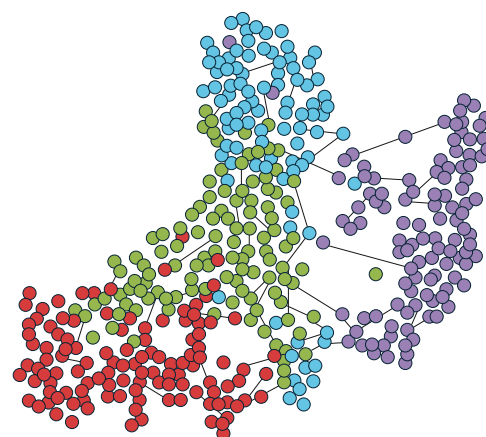
ISOCODE CHIPS	PRODUCT CODE
Single-Cell Metabolome Tumor Metabolome Chips – (H) 4	ISOCODE-4L03-4

PANELS - ISOLIGHT	PRODUCT CODE
Single-Cell Metabolome Tumor Metabolome Panel – (H) 4	PANEL-4L03-4

PANELS - ISOSPARK	PRODUCT CODE
Single-Cell Metabolome Tumor Metabolome Panel – (H) 4	S-PANEL-4L03-4

## Metabolome Characterizes Signaling Mechanisms Driving Resistance

IsoPlexis' Single-Cell Metabolome solution was employed in the analysis of the resistance pathways of BRAF<sup>V600E</sup>M397 mutant melanoma cells treated with BRAF inhibitor (BRAFi). IsoPlexis' technology revealed two distinct subpopulations of BRAF<sup>V600E</sup>M397 cells which followed different pathways to drug resistance and had different drug susceptibilities. This technology provided insights for researchers to identify effective combination therapies to combat this resistance.



Su et al. "Multi-omic single-cell snapshots reveal multiple independent trajectories to drug tolerance in a melanoma cell line." Nature Communications 11: 2345, 2020.





# CODEPLEX SECRETOME

With high-plex walk-away immunoassays, unleash super-powered and super-automated multiplexed proteomics in very low sample volumes to access insights right away. With a faster and more streamlined approach to generating multiplexed bulk cytokine data via a fully automated workflow, CodePlex offers a modular solution to bulk cytokine data analysis and minimizes variability from user input.

## Panel Menu

CXCL5, EGF, GM-CSF, Granzyme B, IFN- $\gamma$ , IL-1 $\alpha$ , IL-1 $\beta$ , IL-2, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-12, IL-13, IL-15, IL-17A, IP-10, KC, MCP-1, MIF, MIP-1 $\alpha$ , MIP-1 $\beta$ , PDGF-BB, Perforin, RANTES, sCD137, TNF- $\alpha$ , TNF- $\beta$ , VEGF

## Human Adaptive Immune

GM-CSF, Granzyme B, IFN- $\gamma$ , IL-2, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-13, IL-15, IL-17A, IP-10, MCP-1, MIP-1 $\alpha$ , MIP-1 $\beta$ , Perforin, sCD137, TNF- $\alpha$ , TNF- $\beta$

## Non-Human Primate Adaptive Immune

TNF- $\alpha$ , MCP-1, IL-2, IL-4, MIP-1 $\beta$ , IL-6, IL-8, IL-1 $\beta$ , RANTES, IFN- $\gamma$ , IP-10, MIP-1 $\alpha$ , MIF, GM-CSF

## Mouse Adaptive Immune

GM-CSF, IFN- $\gamma$ , IL-1 $\beta$ , IL-2, IL-4, IL-5, IL-6, IL-10, IL-12, IL-17A, IP-10, KC, MCP-1, MIP-1 $\alpha$ , RANTES, TNF- $\alpha$

## Human Innate Immune

EGF, GM-CSF, Granzyme B, IFN- $\gamma$ , IL-1 $\beta$ , IL-4, IL-6, IL-7, IL-8, IL-10, IL-15, IP-10, MCP-1, MIP-1 $\alpha$ , MIP-1 $\beta$ , PDGF-BB, sCD137, TNF- $\alpha$ , VEGF

## Human Cytokine Storm Panel

GM-CSF, IFN- $\gamma$ , IL-2, IL-4, IL-5, IL-6, IL-7, IL-8, IL-9, IL-10, IL-13, IL-17A, IP-10, MCP-1, MIP-1 $\alpha$ , MIP-1 $\beta$ , Perforin, TNF- $\alpha$

## Human Stem Cell Signaling

CXCL5, GM-CSF, IFN- $\gamma$ , IL-1 $\alpha$ , IL-1 $\beta$ , IL-2, IL-4, IL-6, IL-8, IL-10, IL-15, IL-17A, MCP-1, MIP-1 $\alpha$ , MIP-1 $\beta$ , RANTES, TNF- $\alpha$

## Human Cancer Signaling

EGF, IFN- $\gamma$ , IL-1 $\alpha$ , IL-1 $\beta$ , IL-2, IL-4, IL-5, IL-6, IL-7, IL-8, IL-10, IL-13, MCP-1, MIF, PDGF-BB, RANTES, TNF- $\alpha$

## Mouse Innate Immune (Coming Soon)

IFN- $\gamma$ , TNF- $\alpha$ , MIP-1 $\alpha$ , IL-15, GM-CSF, IL-5, IL-10, IL-13, IL-6, IL-17A, MCP-1, IP-10, MIP-1 $\beta$ , EGF, PDGF-BB, MIF

## Mouse Inflammation (Coming Soon)

IFN- $\gamma$ , TNF- $\alpha$ , MIP-1 $\alpha$ , IL-2, GM-CSF, IL-5, IL-10, IL-13, IL-4, IL-6, IL-1 $\beta$ , IL-17A, IL-12, MCP-1, IP-10, KC

## Mouse Stem Cell Signaling (Coming Soon)

GM-CSF, IFN- $\gamma$ , IL-1 $\beta$ , IL-2, IL-4, IL-6, IL-10, IL-15, IL-17A, MCP-1, MIP-1 $\alpha$ , MIP-1 $\beta$ , RANTES, TNF- $\alpha$

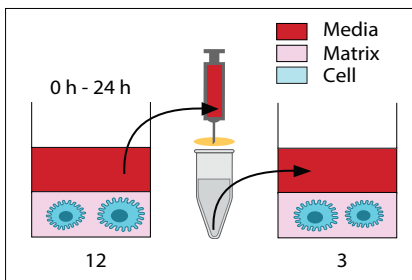
## Mouse Cancer Signaling (Coming Soon)

EGF, IFN- $\gamma$ , IL-1 $\beta$ , IL-2, IL-4, IL-5, IL-6, IL-7, IL-10, IL-13, MCP-1, MIF, PDGF-BB, RANTES, TNF- $\alpha$ , VEGF

Includes **abcam** antibodies



## Secreted Cytokines Promote Tumor Metastasis



	HT1080WT						
	10	20	50	100	120	150	R <sup>2</sup>
EGF							0.07
FGF							0.01
HGF							0.01
VEGF							0.40
PDGF							0.02
MIF							0.82
MCP1							0.09
RANTES							0.57
MIP1a							0.01
IFNg							0.17
TNFa							0.22
TNFb							0.68
GMCSF							0.01
IL1a							0.17
IL1b							0.10
IL2							0.09
IL4							0.14
IL5							0.34
IL6							0.85
IL8							0.83
IL10							0.00
IL12							0.03
IL13							0.25
FITC							0.41
0							57.7AU

	MDA-MB-231				
	10	20	50	100	R <sup>2</sup>
EGF					0.91
FGF					0.86
HGF					0.03
VEGF					0.53
PDGF					0.06
MIF					0.27
MCP1					0.11
RANTES					0.00
MIP1a					0.00
IFNg					0.00
TNFa					0.38
TNFb					0.93
GMCSF					0.60
IL1a					0.11
IL1b					0.02
IL2					0.39
IL4					0.21
IL5					0.61
IL6					0.99
IL8					0.82
IL10					0.00
IL12					0.30
IL13					0.40
FITC					0.24
0					8.9AU

CodePlex revealed a possible mechanism promoting tumor cell migration while inferring an approach to reduce metastatic capability of tumor cells.

Jayatilaka H, et al. Synergistic IL-6 and IL-8 paracrine signalling pathway infers a strategy to inhibit tumour cell migration. Nature Communications 8: 15584, 2017

CODEPLEX CHIPS - ISOLIGHT	PRODUCT CODE
CodePlex Loading Training Chip	CODEPLEX-2100-1
CodePlex Adaptive Immune Chip – (H) 1	CODEPLEX-2L01-1
CodePlex Adaptive Immune Chip – (H) 2	CODEPLEX-2L01-2
CodePlex Adaptive Immune Chip – (H) 4	CODEPLEX-2L01-4
CodePlex Adaptive Immune Chip – (H) 6	CODEPLEX-2L01-6
CodePlex Adaptive Immune Chip – (H) 8	CODEPLEX-2L01-8
CodePlex Adaptive Immune Chip – (M) 1	CODEPLEX-2L04-1
CodePlex Adaptive Immune Chip – (M) 2	CODEPLEX-2L04-2
CodePlex Adaptive Immune Chip – (M) 4	CODEPLEX-2L04-4
CodePlex Adaptive Immune Chip – (M) 6	CODEPLEX-2L04-6
CodePlex Adaptive Immune Chip – (M) 8	CODEPLEX-2L04-8
CodePlex Adaptive Immune Chip – (NHP) 1	CODEPLEX-2L09-1
CodePlex Adaptive Immune Chip – (NHP) 2	CODEPLEX-2L09-2
CodePlex Adaptive Immune Chip – (NHP) 4	CODEPLEX-2L09-4
CodePlex Adaptive Immune Chip – (NHP) 6	CODEPLEX-2L09-6
CodePlex Adaptive Immune Chip – (NHP) 8	CODEPLEX-2L09-8
CodePlex Innate Immune Chip – (H) 1	CODEPLEX-2L03-1
CodePlex Innate Immune Chip – (H) 2	CODEPLEX-2L03-2
CodePlex Innate Immune Chip – (H) 4	CODEPLEX-2L03-4
CodePlex Innate Immune Chip – (H) 6	CODEPLEX-2L03-6
CodePlex Innate Immune Chip – (H) 8	CODEPLEX-2L03-8
CodePlex Innate Immune Chip – (M) 1	CODEPLEX-2L12-1
CodePlex Innate Immune Chip – (M) 2	CODEPLEX-2L12-2
CodePlex Innate Immune Chip – (M) 4	CODEPLEX-2L12-4
CodePlex Innate Immune Chip – (M) 6	CODEPLEX-2L12-6
CodePlex Innate Immune Chip – (M) 8	CODEPLEX-2L12-8

CODEPLEX CHIPS - ISOLIGHT	PRODUCT CODE
CodePlex Cytokine Storm Chip – (H) 1	CODEPLEX-2L02-1
CodePlex Cytokine Storm Chip – (H) 2	CODEPLEX-2L02-2
CodePlex Cytokine Storm Chip – (H) 4	CODEPLEX-2L02-4
CodePlex Cytokine Storm Chip – (H) 6	CODEPLEX-2L02-6
CodePlex Cytokine Storm Chip – (H) 8	CODEPLEX-2L02-8
CodePlex Inflammation Chip – (M) 1	CODEPLEX-2L10-1
CodePlex Inflammation Chip – (M) 2	CODEPLEX-2L10-2
CodePlex Inflammation Chip – (M) 4	CODEPLEX-2L10-4
CodePlex Inflammation Chip – (M) 6	CODEPLEX-2L10-6
CodePlex Inflammation Chip – (M) 8	CODEPLEX-2L10-8
CodePlex Stem Cell Signaling- Chips – (H) 1	CODEPLEX-2L08-1
CodePlex Stem Cell Signaling- Chips – (H) 2	CODEPLEX-2L08-2
CodePlex Stem Cell Signaling- Chips – (H) 4	CODEPLEX-2L08-4
CodePlex Stem Cell Signaling- Chips – (H) 6	CODEPLEX-2L08-6
CodePlex Stem Cell Signaling- Chips – (H) 8	CODEPLEX-2L08-8
CodePlex Cancer Signaling Chips – (H) 1	CODEPLEX-2L07-1
CodePlex Cancer Signaling Chips – (H) 2	CODEPLEX-2L07-2
CodePlex Cancer Signaling Chips – (H) 4	CODEPLEX-2L07-4
CodePlex Cancer Signaling Chips – (H) 6	CODEPLEX-2L07-6
CodePlex Cancer Signaling Chips – (H) 8	CODEPLEX-2L07-8

CODEPLEX CHIPS - ISOSPARK	PRODUCT CODE
CodePlex Loading Training Chip	CODEPLEX-2100-1
CodePlex Adaptive Immune Chip – (H) 1	CODEPLEX-2L01-1
CodePlex Adaptive Immune Chip – (H) 2	CODEPLEX-2L01-2
CodePlex Adaptive Immune Chip – (H) 4	CODEPLEX-2L01-4
CodePlex Adaptive Immune Chip – (M) 1	CODEPLEX-2L04-1
CodePlex Adaptive Immune Chip – (M) 2	CODEPLEX-2L04-2
CodePlex Adaptive Immune Chip – (M) 4	CODEPLEX-2L04-4
CodePlex Adaptive Immune Chip – (NHP) 1	CODEPLEX-2L09-1
CodePlex Adaptive Immune Chip – (NHP) 2	CODEPLEX-2L09-2
CodePlex Adaptive Immune Chip – (NHP) 4	CODEPLEX-2L09-4
CodePlex Innate Immune Chip – (H) 1	CODEPLEX-2L03-1
CodePlex Innate Immune Chip – (H) 2	CODEPLEX-2L03-2
CodePlex Innate Immune Chip – (H) 4	CODEPLEX-2L03-4
CodePlex Innate Immune Chip – (M) 1	CODEPLEX-2L12-1
CodePlex Innate Immune Chip – (M) 2	CODEPLEX-2L12-2
CodePlex Innate Immune Chip – (M) 4	CODEPLEX-2L12-4

CODEPLEX CHIPS - ISOSPARK	PRODUCT CODE
CodePlex Cytokine Storm Chip – (H) 1	CODEPLEX-2L02-1
CodePlex Cytokine Storm Chip – (H) 2	CODEPLEX-2L02-2
CodePlex Cytokine Storm Chip – (H) 4	CODEPLEX-2L02-4
CodePlex Inflammation Chip – (M) 1	CODEPLEX-2L10-1
CodePlex Inflammation Chip – (M) 2	CODEPLEX-2L10-2
CodePlex Inflammation Chip – (M) 4	CODEPLEX-2L10-4
CodePlex Stem Cell Signaling- Chips – (H) 1	CODEPLEX-2L08-1
CodePlex Stem Cell Signaling- Chips – (H) 2	CODEPLEX-2L08-2
CodePlex Stem Cell Signaling- Chips – (H) 4	CODEPLEX-2L08-4
CodePlex Cancer Signaling Chips – (H) 1	CODEPLEX-2L07-1
CodePlex Cancer Signaling Chips – (H) 2	CODEPLEX-2L07-2
CodePlex Cancer Signaling Chips – (H) 4	CODEPLEX-2L07-4

PANELS - ISOLIGHT	PRODUCT CODE
CodePlex Adaptive Immune Panel – (H) 1	PANEL-2L01-1
CodePlex Adaptive Immune Panel – (H) 2	PANEL-2L01-2
CodePlex Adaptive Immune Panel – (H) 4	PANEL-2L01-4
CodePlex Adaptive Immune Panel – (H) 6	PANEL-2L01-6
CodePlex Adaptive Immune Panel – (H) 8	PANEL-2L01-8
CodePlex Adaptive Immune Panel – (M) 1	PANEL-2L04-1
CodePlex Adaptive Immune Panel – (M) 2	PANEL-2L04-2
CodePlex Adaptive Immune Panel – (M) 4	PANEL-2L04-4
CodePlex Adaptive Immune Panel – (M) 6	PANEL-2L04-6
CodePlex Adaptive Immune Panel – (M) 8	PANEL-2L04-8
CodePlex Adaptive Immune Panel – (NHP) 1	PANEL-2L09-1
CodePlex Adaptive Immune Panel – (NHP) 2	PANEL-2L09-2
CodePlex Adaptive Immune Panel – (NHP) 4	PANEL-2L09-4
CodePlex Adaptive Immune Panel – (NHP) 6	PANEL-2L09-6
CodePlex Adaptive Immune Panel – (NHP) 8	PANEL-2L09-8
CodePlex Innate Immune Panel – (H) 1	PANEL-2L03-1
CodePlex Innate Immune Panel – (H) 2	PANEL-2L03-2
CodePlex Innate Immune Panel – (H) 4	PANEL-2L03-4
CodePlex Innate Immune Panel – (H) 6	PANEL-2L03-6
CodePlex Innate Immune Panel – (H) 8	PANEL-2L03-8
CodePlex Innate Immune Panel – (M) 1	PANEL-2L12-1
CodePlex Innate Immune Panel – (M) 2	PANEL-2L12-2
CodePlex Innate Immune Panel – (M) 4	PANEL-2L12-4
CodePlex Innate Immune Panel – (M) 6	PANEL-2L12-6
CodePlex Innate Immune Panel – (M) 8	PANEL-2L12-8

PANELS - ISOLIGHT	PRODUCT CODE
CodePlex Cytokine Storm Panel – (H) 1	PANEL-2L02-1
CodePlex Cytokine Storm Panel – (H) 2	PANEL-2L02-2
CodePlex Cytokine Storm Panel – (H) 4	PANEL-2L02-4
CodePlex Cytokine Storm Panel – (H) 6	PANEL-2L02-6
CodePlex Cytokine Storm Panel – (H) 8	PANEL-2L02-8
CodePlex Inflammation Panel – (M) 1	PANEL-2L10-1
CodePlex Inflammation Panel – (M) 2	PANEL-2L10-2
CodePlex Inflammation Panel – (M) 4	PANEL-2L10-4
CodePlex Inflammation Panel – (M) 6	PANEL-2L10-6
CodePlex Inflammation Panel – (M) 8	PANEL-2L10-8
CodePlex Stem Cell Signaling- Panel – (H) 1	PANEL-2L08-1
CodePlex Stem Cell Signaling- Panel – (H) 2	PANEL-2L08-2
CodePlex Stem Cell Signaling- Panel – (H) 4	PANEL-2L08-4
CodePlex Stem Cell Signaling- Panel – (H) 6	PANEL-2L08-6
CodePlex Stem Cell Signaling- Panel – (H) 8	PANEL-2L08-8
CodePlex Cancer Signaling Panel - (H) 1	PANEL-2L07-1
CodePlex Cancer Signaling Panel - (H) 2	PANEL-2L07-2
CodePlex Cancer Signaling Panel - (H) 4	PANEL-2L07-4
CodePlex Cancer Signaling Panel - (H) 6	PANEL-2L07-6
CodePlex Cancer Signaling Panel - (H) 8	PANEL-2L07-8

PANELS - ISOSPARK	PRODUCT CODE
CodePlex Adaptive Immune Panel – (H) 1	S-PANEL-2L01-1
CodePlex Adaptive Immune Panel – (H) 2	S-PANEL-2L01-2
CodePlex Adaptive Immune Panel – (H) 4	S-PANEL-2L01-4
CodePlex Adaptive Immune Panel – (M) 1	S-PANEL-2L04-1
CodePlex Adaptive Immune Panel – (M) 2	S-PANEL-2L04-2
CodePlex Adaptive Immune Panel – (M) 4	S-PANEL-2L04-4
CodePlex Adaptive Immune Panel – (NHP) 1	S-PANEL-2L09-1
CodePlex Adaptive Immune Panel – (NHP) 2	S-PANEL-2L09-2
CodePlex Adaptive Immune Panel – (NHP) 4	S-PANEL-2L09-4
CodePlex Innate Immune Panel – (H) 1	S-PANEL-2L03-1
CodePlex Innate Immune Panel – (H) 2	S-PANEL-2L03-2
CodePlex Innate Immune Panel – (H) 4	S-PANEL-2L03-4

PANELS - ISOSPARK	PRODUCT CODE
CodePlex Innate Immune Panel – (M) 1	S-PANEL-2L12-1
CodePlex Innate Immune Panel – (M) 2	S-PANEL-2L12-2
CodePlex Innate Immune Panel – (M) 4	S-PANEL-2L12-4
CodePlex Cytokine Storm Panel – (H) 1	S-PANEL-2L02-1
CodePlex Cytokine Storm Panel – (H) 2	S-PANEL-2L02-2
CodePlex Cytokine Storm Panel – (H) 4	S-PANEL-2L02-4
CodePlex Inflammation Panel – (M) 1	S-PANEL-2L10-1
CodePlex Inflammation Panel – (M) 2	S-PANEL-2L10-2
CodePlex Inflammation Panel – (M) 4	S-PANEL-2L10-4
CodePlex Stem Cell Signaling- Panel – (H) 1	S-PANEL-2L08-1
CodePlex Stem Cell Signaling- Panel – (H) 2	S-PANEL-2L08-2
CodePlex Stem Cell Signaling- Panel – (H) 4	S-PANEL-2L08-4
CodePlex Cancer Signaling Panel - (H) 1	S-PANEL-2L07-1
CodePlex Cancer Signaling Panel - (H) 2	S-PANEL-2L07-2
CodePlex Cancer Signaling Panel - (H) 4	S-PANEL-2L07-4

## RESEARCH AREAS

- Cancer Immunology
- Cell Therapy
- Infectious Disease
- Inflammation
- Targeted Therapies

## ADDITIONAL RESOURCES

PUBLICATIONS - [isoplexis.com/publications](https://isoplexis.com/publications)

LITERATURE - [isoplexis.com/literature](https://isoplexis.com/literature)

PROTOCOLS - [isoplexis.com/protocols](https://isoplexis.com/protocols)



# CODEPLEX INTRACELLULAR PROTEOME

IsoPlexis' CodePlex solution is helping researchers by providing a faster and more streamlined approach to generating intracellular proteomics data via a fully automated end-to-end workflow. It does this by offering a modular solution to bulk phosphoprotein data analysis and minimizing variability from user input.

### Human Tumor Signaling Panel (Coming Soon)

P-PRAS40, P-IkBa, P-NF-kB p65, P-Met, P-p44/42 MAPK, P-S6 Ribosomal, P-Rb, P-p90RSK, P-STAT3, P-MEK1/2, P-Stat1, P-Stat5, P-eIF4E, Cleaved PARP, Alpha Tubulin

### Human Adaptive Immune Panel (Coming Soon)

P-Akt, P-p53, P-PD1, P-LCK, P-CD3 zeta, P-Zap70, P-CCR7, P-CD28, P-41BB, P-MEK 1/2, P-P44/42 MAPK (ERK1/2), P-Jak1, P-Jak2, P-AMPK, P-PI3K, P-mTOR, P-P21, P-LAT, P-NF-kB p65, Alpha Tubulin

CODEPLEX CHIPS	PRODUCT CODE
CodePlex Intracellular Proteome Tumor Signaling 1 Chip – (H) 1	CODEPLEX-2L05-1
CodePlex Intracellular Proteome Tumor Signaling 1 Chip – (H) 2	CODEPLEX-2L05-2
CodePlex Intracellular Proteome Tumor Signaling 1 Chip – (H) 4	CODEPLEX-2L05-4
CodePlex Intracellular Proteome Tumor Signaling 1 Chip – (H) 6	CODEPLEX-2L05-6
CodePlex Intracellular Proteome Tumor Signaling 1 Chip – (H) 8	CODEPLEX-2L05-8

PANELS - ISOLIGHT	PRODUCT CODE
CodePlex Intracellular Proteome Tumor Signaling 1 Panel – (H) 1	PANEL-2L05-1
CodePlex Intracellular Proteome Tumor Signaling 1 Panel – (H) 2	PANEL-2L05-2
CodePlex Intracellular Proteome Tumor Signaling 1 Panel – (H) 4	PANEL-2L05-4
CodePlex Intracellular Proteome Tumor Signaling 1 Panel – (H) 6	PANEL-2L05-6
CodePlex Intracellular Proteome Tumor Signaling 1 Panel – (H) 8	PANEL-2L05-8

PANELS - ISOSPARK	PRODUCT CODE
CodePlex Intracellular Proteome Tumor Signaling 1 Panel – (H) 1	S-PANEL-2L05-1
CodePlex Intracellular Proteome Tumor Signaling 1 Panel – (H) 2	S-PANEL-2L05-2
CodePlex Intracellular Proteome Tumor Signaling 1 Panel – (H) 4	S-PANEL-2L05-4



## RESEARCH AREAS

- Cancer Immunology
- Cell Therapy
- Infectious Disease
- Inflammation
- Targeted Therapies

## ADDITIONAL RESOURCES

PUBLICATIONS - [isoplexis.com/publications](https://isoplexis.com/publications)

LITERATURE - [isoplexis.com/literature](https://isoplexis.com/literature)

PROTOCOLS - [isoplexis.com/protocols](https://isoplexis.com/protocols)

## Contact Us

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203-500-9350

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