



# MICROSCOOP<sup>®</sup> / MINT



Synccell workflow

Microscope is the platform for unbiased subcellular proteomics. Paired with mass spectrometry, the platform's microscopy-guided automated photobiotinylation enables high-precision location-specific protein purification and subsequent proteomic discovery.



**High Precision**  
25 nm labeling precision



**Broad Sample Compatibility**  
Use with FFPE/fresh frozen tissue samples or fixed cells



**Unbiased Discovery**  
Reveal the proteome without targeted panels



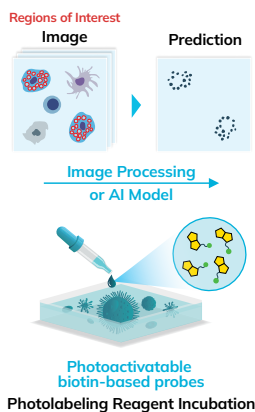
**Superior Sensitivity**  
Discover low copy number proteins from increased dynamic range due to subcellular protein isolation



## WORKFLOW OF MICROSCOOP

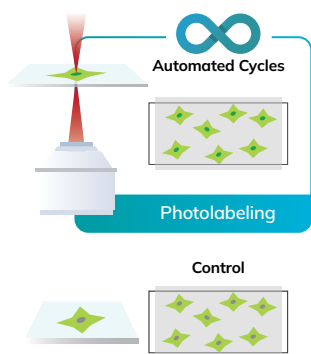
**STEP 1**

Sample Preparation



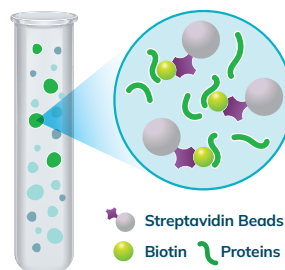
**STEP 2**

Real-time ROI Recognition & Photolabeling



**STEP 3**

Enrichment and Digestion

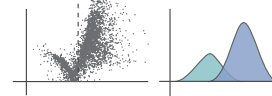


**STEP 4**

MS Detection and Analysis



Label-free LC-MS/MS



1 DAY

1-3 DAYS

3 DAYS

1 DAY

On the Microscope Mint

Microscope Reagent Kits



Synlight-Rich<sup>™</sup>  
(350 nm precision)



Synlight-Pure<sup>™</sup>  
(25 nm labeling precision)



Microscope Mint



Synpull<sup>™</sup> Kit

LC-MS/MS & Data Analysis



# APPLICATIONS

## Broad Sample Compatibility



### Cell

- Fixed cells



### Tissue

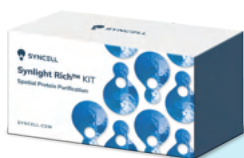
- Cryosections from
  - FFPE
  - Fresh frozen
  - Fixed frozen



### Sample Agnostic

- No antibody panels
- No molecular modifications
- Native cell or tissue environment

## Resolution Without Compromise



### Synlight-Rich™

- 350 nm precision for broad, unbiased discovery
- High sensitivity optimized for organelles, cell populations, and tissue compartments
- Ideal for exploratory studies and comparative profiling



### Synlight-Pure™

- 25 nm labeling precision for subcellular structures and high-precision ROI definition
- Optimized for studying direct and indirect interacting proteins
- Designed for pharma discovery, trafficking, and mechanistic studies

## Where Microscop Accelerates Discovery



### Pharma Discovery

Surfaceome



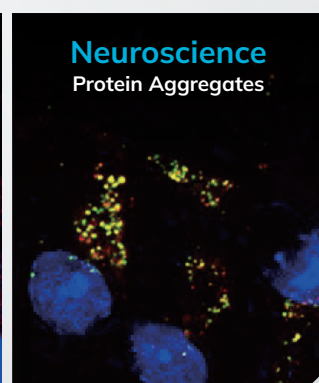
### Oncology

Nuclear Bodies



### Cell Biology

Primary Cilia



### Neuroscience

Protein Aggregates



### Applicable Cellular Patterns

- Condensates
- Protein Aggregates
- Nuclear Bodies
- Organelles
- Organelle Contact Sites
- Whole Cells
- Cell Membranes
- Cell-Cell Contact Sites
- Interactome
- Sub-Organelle Regions