

Milo

Single-Cell Westerns

Milo™ is the world's first Single-Cell Western platform. He measures protein expression in thousands of single cells in a single run so you can profile heterogeneity in your samples. Just load your cell suspension and the scWest chip captures ~1,000 single-cells. Milo then does a fast, 1 minute SDS-PAGE separation on each single-cell lysate on-chip. Then just probe with your favorite conventional Western antibodies to measure up to 4 proteins per cell simultaneously. Use Single-Cell Westerns to unlock the single-cell proteome and measure more of the proteome than is possible with any other single-cell technique.



How can Milo help you?

- **I need to profile heterogeneity in complex samples.** Milo measures protein expression in ~1,000 single-cells in one 4 hour experiment so you can quantify expression heterogeneity of your target and the percentage of cells in your sample that are target positive.
- **I need protein validation of my single-cell RNA-seq data.** Use conventional western antibodies to validate your single-cell RNA-seq data with single-cell protein data.
- **I need multiplexing to detect multiple proteins at the single-cell level.** Simultaneously detect 12+ proteins in your sample—all at the single-cell level—using spectral and size-based multiplexing strategies.
- **I want to measure protein isoform heterogeneity.** Milo's molecular weight sizing step can resolve protein isoforms that differ in molecular weight, allowing you to measure how many cells in your sample express one isoform, the other isoform, or both isoforms.