

Vesicode®

Highly multiplexed surface-protein profiling of individual extracellular vesicles

Vesicode® brings Secrettech's Proximity Barcoding Assay (PBA) to EV research, enabling highly multiplexed surface-protein profiling on individual EVs.

By moving beyond population-averaged measurements, Vesicode® reveals protein abundance, co-localization, combinatorial signatures, and EV heterogeneity.

What can Vesicode® reveal?

- Surface-protein profiles across individual EVs
- Protein co-localization and combinatorial surface signatures
- Molecularly distinct EV subpopulations and their relative abundance
- Differences across samples, conditions or cohorts
- Candidate surface-protein signatures for biomarker discovery

Vesicode® reagent kits for in-house use

Run Vesicode® PBA workflows in your own laboratory using ready-to-use panels for human or mouse EV research.

Vesicode® Surface 550

Human EVs

- 550+ proteins
- Highly multiplexed surface-protein profiling

Vesicode® Mouse 200

Mouse EVs

- 200+ proteins
- Highly multiplexed surface-protein profiling

Choose how to access Vesicode®



Run it yourself

Vesicode® Reagent Kits

Run Vesicode® workflows in your own laboratory using ready-to-use panels and panel-specific protocols.



Send us your samples

Vesicode® Profiling Services

Send your samples to Secrettech for end-to-end EV profiling, including assay execution, sequencing, data generation, and bioinformatics analysis.



Get support with your data

Data Analysis & Bioinformatics

Access Secrettech bioinformatics expertise for PBA data generated in your own laboratory, from data processing and quality control to EV subpopulation and biomarker analysis.

A complete workflow for EV surface-protein profiling

Vesicode combines a standardized PBA workflow, NGS readout, and downstream bioinformatics to support highly multiplexed analysis of EV surface proteins.

Vesicode workflow

01 Sample preparation

Prepare EV-containing samples and the EV capture plate.

02 EV capture & probe binding

Capture EVs and bind antibody-linked DNA probes.

03 Proximity barcoding

Link protein signals from the same EV.

04 Library construction & sequencing

Prepare and sequence PBA libraries by NGS.

05 Data analysis

Measure protein abundance, co-localization, and EV heterogeneity.

What the data can show

Molecular abundance

Compare relative target abundance across samples or conditions.



Protein co-localization

Identify surface proteins that occur together on individual EVs and explore combinatorial surface signatures.



EV heterogeneity

Resolve molecularly distinct EV populations and compare subpopulation patterns across samples.



Bioinformatics & EVisualizer®

Turn PBA sequencing data into interpretable EV molecular profiles

Secretech provides bioinformatics and data-analysis support both as part of its EV profiling services and as a standalone service for PBA data generated in your own laboratory.

Analysis can include:

- Data quality control, normalization and quantification
- Protein co-localization and combinatorial pattern analysis
- EV subpopulation and biomarker analysis
- Interactive exploration in EVisualizer®

Flexible support for your workflow

Run the assay in your own laboratory, work with Secretech for end-to-end profiling, or add bioinformatics support to PBA data generated in-house.

Explore Vesicode® for your EV research

Discuss your samples, research question, and preferred workflow with Secretech to identify the most suitable approach.