

Stereo-seq Transcriptome and Multiplex Immunofluorescence (mIF) Co-detection

Unlock Spatially Resolved Multi-omics Information with High Precision

Stereo-seq transcriptomics mIF solution enables spatial visualization of multiple proteins on top of the unbiased whole transcriptome information on the same tissue slice. Without affecting mRNA capturing, the additional detected protein information can be integrated with gene expression data to in-depth evaluate valuable samples, and to parse complex pathological and physiological processes.

Product Highlights



RNA and protein information co-detection in a single experiment

Detect up to ~4 proteins and unbiased high-resolution whole transcriptome spatial distributions in cells on the same fresh frozen sample



Flexibility in choosing antibodies based on your research needs and project design



Single-cell resolution results across different species



User-friendly experience

Improved workflow and upgraded bioinformatic pipeline

Gene Expression and Protein Cluster Demo Display

Stereo-seq mIF solution delivers high-resolution protein and transcriptome co-detection on different tissues

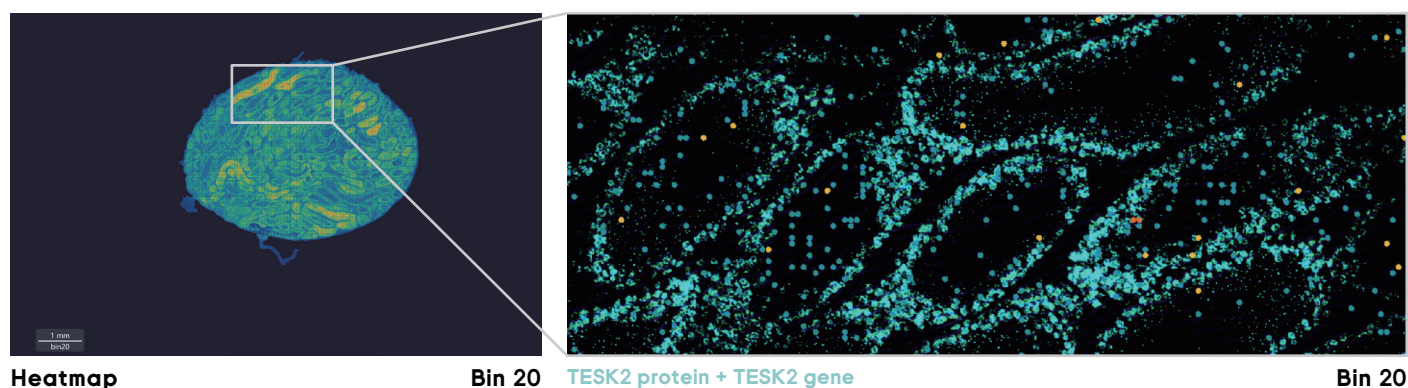


Fig 1. A mouse testis section was stained with anti-TESK2 antibody and went through Stereo-seq Transcriptomics mIF workflow. Here, we demonstrate a zoomed-in region within the tissue with TESK2 staining and co-localization of the TESK2 gene at bin20 resolution ($\sim 10 \mu\text{m}$).



Fig 2. A. Individual fluorescence images of DAPI stained nuclei, anti-NeuN antibody staining and anti-SMI32 antibody staining of mouse brain and merged immuno-fluorescence images. B. Spatial gene expression heatmap of mouse brain at bin20 resolution ($\sim 10 \mu\text{m}$) after immuno-fluorescence assay in the same section.

Product Reagents

Part Number	Product	Specification
211SP11118	Stereo-seq Permeabilization Set for Chip-on-a-slide V1.1	8 RXN
211KP11118	Stereo-seq Permeabilization Kit	8 RXN
210CP118	Stereo-seq Chip P Slide (1cm*1cm)	8 EA
1000033700	STOmics Accessory Kit	5 PCs
211ST13114	Stereo-seq Transcriptomics Set for Chip-on-a-slide V1.3	4 RXN
211KT13114	Stereo-seq Transcriptomics T Kit	4 RXN
210CT13114	Stereo-seq Chip T Slide (1cm*1cm)	4 EA
1000033700	STOmics Accessory Kit	5 PCs
111KL160	Stereo-seq 16 Barcode Library Preparation Kit	16 RXN
301AUX001	Stereo-seq PCR Adaptor	2 EA

User manuals and documentations: <https://en.stomics.tech/resources/documents/list.html>

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