

NanoVipTM

Fully Automated System for Spatial Biology



omicsveu

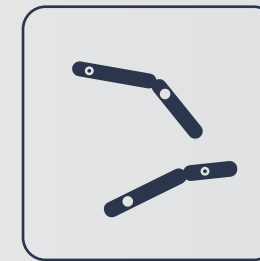
Introducing NanoVip™

The Spatial Multiplex Multiomics System

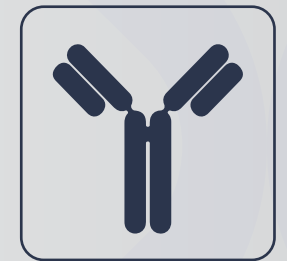
The NanoVip™ system offers a broad range of spatial multiplex multi-omics solutions consisting of a fully automated staining system, ready-to-use probes, multiplexing antibodies, visualization kits and consumables for spatial biology. The system includes the EZ-AR™ Elegance Line for an all-in-one de-wax rehydration and universal retrieval solution for all proteins and nucleic acids. NanoVIP® is an all-in-one fully automated system, from microtome to slides, ready for imaging and imaging mass cytometry.



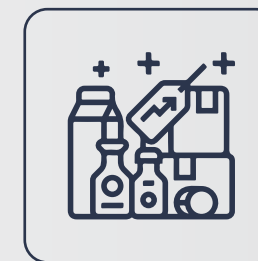
Fully automated
staining system



Ready-to-use
probes, Antibodies



Multiplexing
antibodies



Consumables



Ready-to-use
visualization kits

STATE-OF-THE-ART AUTOMATION



MICRO-CHAMBER

Reduces total reaction volumes



PRECISION PIPETTING

Dispenses and maintains accurate volume



INDEPENDENT WORKSTATIONS

Customizable individual protocols for each workstation.



24 REAGENT VIALS

Minimizes dead volume (400 uL) with Eppendorf® insert (50 uL)



PRECISION TEMPERATURE

Peltier technology ensures accurate temperature maintenance on each slide position



ECO-FRIENDLY

Complete xylene-free system generates low-volume waste from washes

Hyperion™ Staining on NanoVip™



Using manufacturer's supplied protocols and reagents, automation of manual staining steps:



Reduced hands-on time
of protocol to less than
20 minutes



Reduced reagent
costs by reducing
reaction volumes



Plug & play system
does not require highly
skilled operators

Combining technologies such as the Hyperion™ imaging with NanoVip™, empowers researchers to perform proteomics and genomics profiling efficiently, cost-effectively, and precisely

Imaging Mass Cytometry™ (IMC™) staining visualizes multiple protein markers in a single staining cycle using metal-conjugated antibodies

Multiplexing using Hyperion™ enables proteomics & genomics profiling using same tissue section on NanoVip™ by reproducible and consistent staining results

This technique provides in-depth details of molecular signaling and its surrounding microenvironment

NanoVip™ automates IMC™ staining protocols with unmatched staining quality/unrivalled staining clarity/elite staining performance and all cost-cutting control factors from our recent collaborators

Generates proteomics or genomic data of over 40 markers in a single staining cycle

NanoVip™ automates Manual RNAscope™

Manual



Automation



RNAscope™ technology examines cellular transcriptome

NanoVIP automates manual -RNAscope™ staining protocol with ease

RNAscope™ staining system amplifies targeted RNA transcripts

Allows visualization of mRNA in the tissue at cellular level

Ensures consistency with clean, crisp, and intense staining results

Complex **MANUAL** steps in RNAscope™ workflow

- 1 Permeabilization
- Hybridization 2
- 3 Amplification
- Visualization 4
- 5 Quantification



NanoVip™ automation of manual RNAscope™ (ISH) protocol steps reduce hands-on time

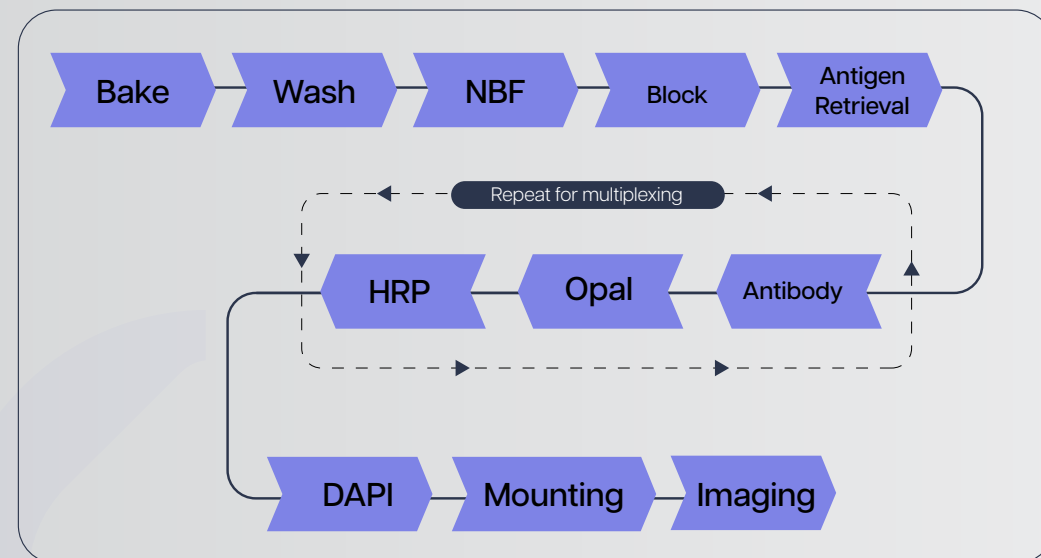


NanoVip™ automation reduces RNAscope™ probe and overall reagent volumes, thus saving in reagent cost



NanoVip™ precision temperature, reaction times and liquid handling streamlines and simplifies RNAscope™ manual protocol

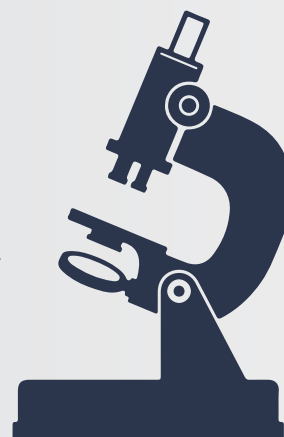
Opal Manual Protocol on NanoVip™



All manual step converted to Automated



Slides ready
for imaging



Opal Multiplex allows simultaneous detection of multiple tumor biomarkers for proteomics profiling. Opal multiplex IHC workflow combines standard unlabeled primary antibody with Tyramide Signal Amplification (TSA) and the Opal polymer horseradish peroxidase (HRP) to amplify the IHC signal and enables the visualization of biomarkers by covalently depositing.

The Opal multiplex IHC protocol is automated on NanoVip™, our state-of-the-art fully automated staining system.



Cost-effectiveness: Reducing reagent costs and labor required compared to conventional methods

Time-efficiency: Automating manual staining steps saves considerable time and generates consistent results with antigen retrieval done within the instrument



Streamlined Process: Using automated processes simplifies the protocol, making it more accessible to researchers

Accelerate your Spatial Biology Research



Omicsveu special purpose spinoff from BioGenex

omicsveu
The Spatial Multiplex Multiomics Company | Subsidiary of BioGenex

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