

NaveniFlex™ Tissue

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YOU HAVE THE VISION,
WE HAVE THE SUBSTANCE.

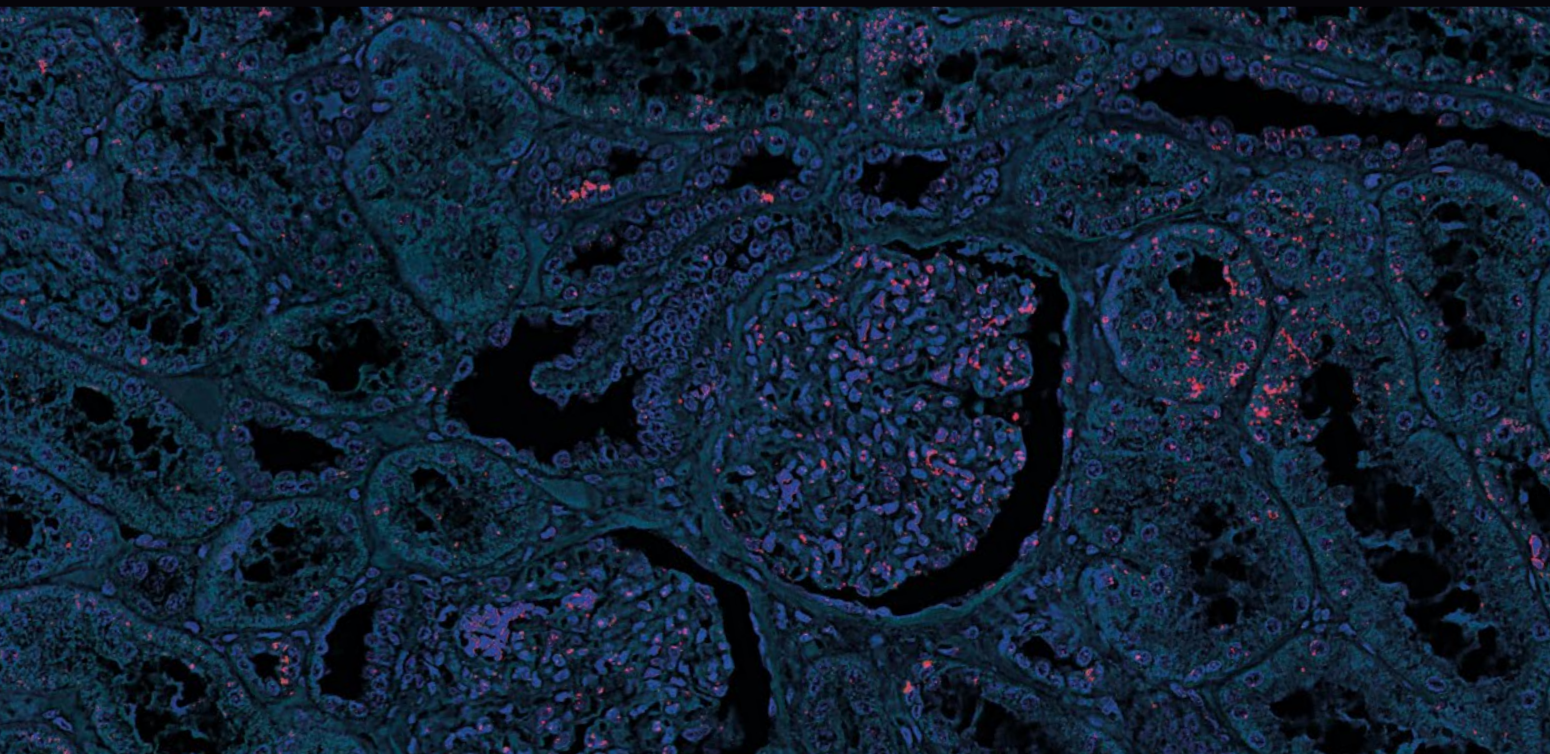
BRINGING PRECISION TO SPATIAL PROTEOMICS

An eye-opening solution for tissue samples

Looking for protein-protein interactions or post-translational modifications in tissues? We've got you covered. The advanced Naveni™ proximity ligation technology we developed for NaveniFlex™ Tissue kits is tailor-made to overcome common background challenges in tissue samples. The kits are optimized to deliver highly reproducible and accurate results even for the least abundant protein interactions.

NaveniFlex™ Tissue enables you to:

- Study protein-protein interactions in tissue samples
- Detect low abundant proteins *in situ*
- Visualize signals that would otherwise be obscured by background
- Analyze protein interplay in intact tissue morphology

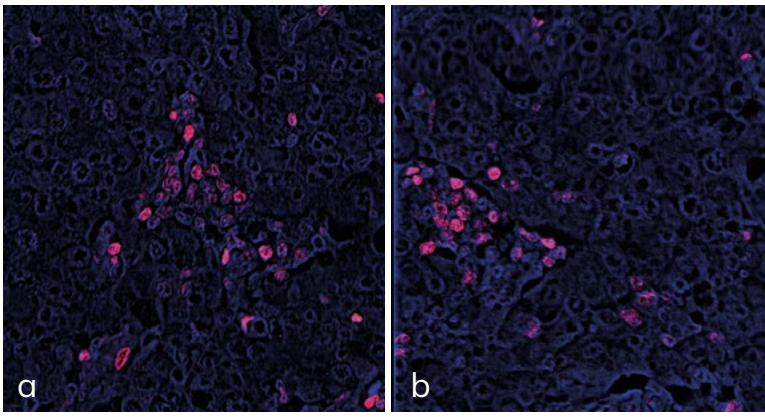


Interaction of Podocalyxin/Ezrin in human kidney glomeruli, 20x. Interaction in red and nuclei in blue.

What is new?

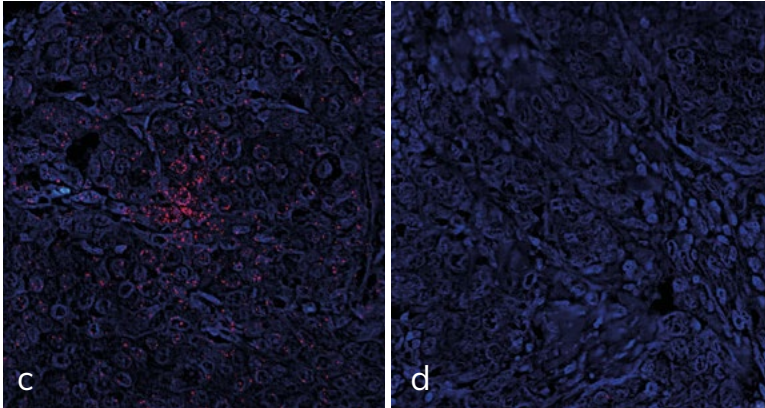
Tissues are complex multicellular structures where fluorescently labeled detection reagents have been observed to bind unspecifically. To address this unspecific binding, we have developed a new proprietary solution for fluorescent detection of protein-protein interactions (PPI) and post-translational modifications (PTM) in FFPE and frozen human and mouse tissues.

The problem



This commercial *in situ* proximity ligation kit X (a, b) was used for Podocalyxin/Ezrin staining in human FFPE breast cancer tissue. The kit produces similar stain in both the positive (a) and the technical negative control (b) due to high background (hazy red staining) which obscures proximity signal.

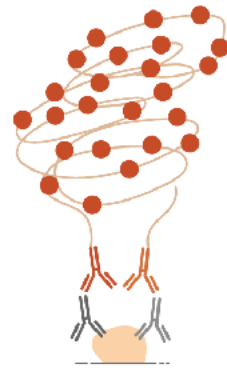
The solution



In contrast, NaveniFlex Tissue visualizes the Podocalyxin/Ezrin interactions clearly (discrete red specks), free of background (c), and leaves the technical negative control blank (d) in FFPE breast cancer tissue. A picture does say more than a thousand words!

The NaveniFlex™ Tissue kit includes two Navenibodies conjugated to proprietary oligo arms (depicted as orange antibodies in the illustration to the right). Only if the Navenibodies are in close proximity will they generate a rolling circle amplification reaction, leading to a strong and

distinct dot that is easily quantifiable. Buffers and detection reagents are included. The kits have been optimized for human and mouse tissue and have been validated in FFPE and FF tissue, for tested tissues see product page on our web.



Ordering information

NaveniFlex Tissue

Product	Code	Read out	Primary antibodies required
NaveniFlex Tissue MR Red	NT.MR.100 Red	Fluorescence	Mouse & Rabbit
NaveniFlex Tissue MR Atto647N	NT.MR.100 Atto647N	Fluorescence	Mouse & Rabbit
NaveniFlex Tissue GR Red	NT.GR.100 Red	Fluorescence	Goat & Rabbit
NaveniFlex Tissue GR Atto647N	NT.GR.100 Atto647N	Fluorescence	Goat & Rabbit
NaveniFlex Tissue GM Red	NT.GM.100 Red	Fluorescence	Goat & Mouse
NaveniFlex Tissue GM Atto647N	NT.GM.100 Atto647N	Fluorescence	Goat & Mouse

Kit size: 4 ml working solution
Validated for human and mouse FFPE and FF tissue samples



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Not for use in diagnostic or therapeutic procedures.

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