

Anti-Cross Vimentin-143Nd

Pathologist-Verified Clone for Imaging Mass Cytometry

Catalog: 3143029D

Package size and concentration: 25 µg, 0.5 mg/mL

Storage: Store at 4 °C. Do not freeze.

Reactivity: Rabbit, Rat, Mouse, Human, Bovine, Canine, Hamster, Monkey, Cross

Clone: RV202

Isotype: Mouse IgG1

Formulation: Antibody stabilizer with 0.05% sodium azide

Application: IMC paraffin, IMC frozen

Technical Information

Application: The metal-tagged antibody is designed and formulated for the application of Imaging Mass Cytometry™ (IMC™) using the Fluidigm Hyperion™ Imaging System on formalin-fixed, paraffin-embedded (FFPE) and frozen tissue sections.

Quality control: Each lot of conjugated antibody is quality control-tested by Imaging Mass Cytometry on tissue sections.

Recommended concentration: For optimal performance it is recommended that the antibody be titrated for the desired application. Suggested initial dilution range:

IMC paraffin: 1:25 to 1:100

IMC frozen: 1:50 to 1:200

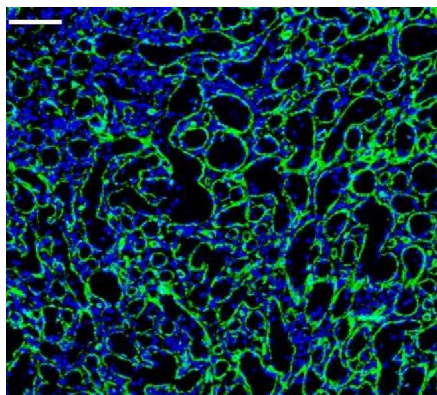
Description

Vimentins are type III intermediate filaments found in various non-epithelial cells, especially mesenchymal cells. They are highly expressed in fibroblasts, with low expression in T and B lymphocytes and little or no expression in Burkitt's lymphoma cell lines. They are also expressed in many hormone-independent mammary carcinoma cell lines. Dynamic structural changes and spatial reorganization of vimentin in response to extracellular stimuli help to coordinate various signaling pathways. Remodeling of vimentin and other intermediate filaments is important during lymphocyte adhesion and migration through the endothelium.

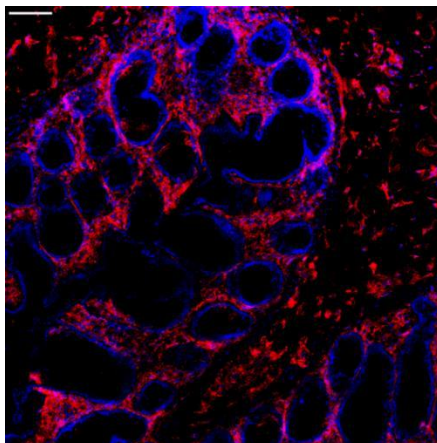
References

Chang, Q. et al. "Staining of frozen and formalin-fixed, paraffin-embedded tissues with metal-labeled antibodies for Imaging Mass Cytometry analysis." *Current Protocols in Cytometry* 82 (2017): 12.47.1–12.47.8.

Giesen, C. et al. "Highly multiplexed imaging of tumor tissues with subcellular resolution by mass cytometry." *Nature Methods* 11 (2014): 417–22.



Human spleen (FFPE) stained with 143Nd-anti-vimentin (RV202) at a dilution of 1:50 (green pseudocolor) and iridium DNA intercalator (blue pseudocolor). Heat-mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. Scale bar size = 100 µm.



Human frozen colon stained with 143Nd-anti-vimentin (RV202) at a dilution of 1:100 (red pseudocolor) and iridium DNA intercalator (blue pseudocolor). Tissue section was fixed in 4% paraformaldehyde for 30 minutes at 4 °C. Scale bar size = 100 µm.

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