

Anti-Human VEGF-163Dy

Pathologist-Verified Clone for Imaging Mass Cytometry™

Catalog: 3163028D

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

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

Reactivity: Human

Clone: G153-694

Isotype: Mouse IgG2b

Formulation: Antibody stabilizer with 0.05% sodium azide

Application: IMC-Paraffin

Technical Information

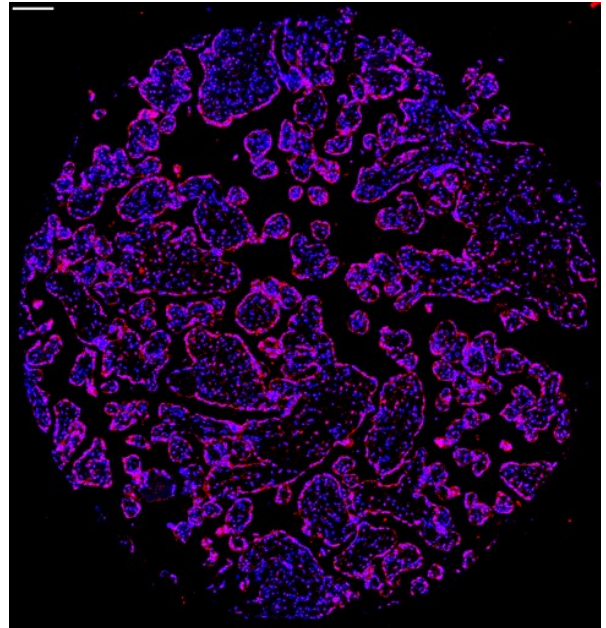
Application: The metal-tagged antibody is designed and formulated for the application of Imaging Mass Cytometry (IMC™) using the Fluidigm Hyperion™ Imaging System on formalin-fixed, paraffin-embedded (FFPE) tissue sections.

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: 1:50 to 1:200

Description

VEGF (vascular endothelial growth factor), also known as VEGFA, is a heparin-binding, dimeric glycosylated protein of 46–48 kDa that is related to the PDGF/VEGF family of growth factors. VEGF is secreted by pituitary cells, monocytes/macrophages, smooth muscle cells and keratinocytes. It is also secreted by tumor cells and other cells exposed to hypoxia. VEGF is a highly specific mitogen for vascular endothelial cells and induces angiogenesis and permeabilization of blood vessels.



Human placenta (FFPE) stained with 163Dy-anti-VEGF (G153-694) at a dilution of 1:100 (red pseudocolor) and iridium DNA intercalator (blue pseudocolor). Heat-mediated antigen retrieval was performed using Tris/EDTA buffer pH 9. Scale bar size = 100 µm.

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.

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