

Anti-CD31 (PECAM1) (WM59)-151Eu

Pathologist-Verified Clone for Imaging Mass Cytometry

Catalog: 3151027D

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

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

Reactivity: Human, African Green, Baboon, Cynomolgus, Rhesus

Clone: WM59

Isotype: Mouse IgG1

Formulation: Antibody stabilizer with 0.05% sodium azide

Application: 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 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 frozen: 1:50 to 1:200

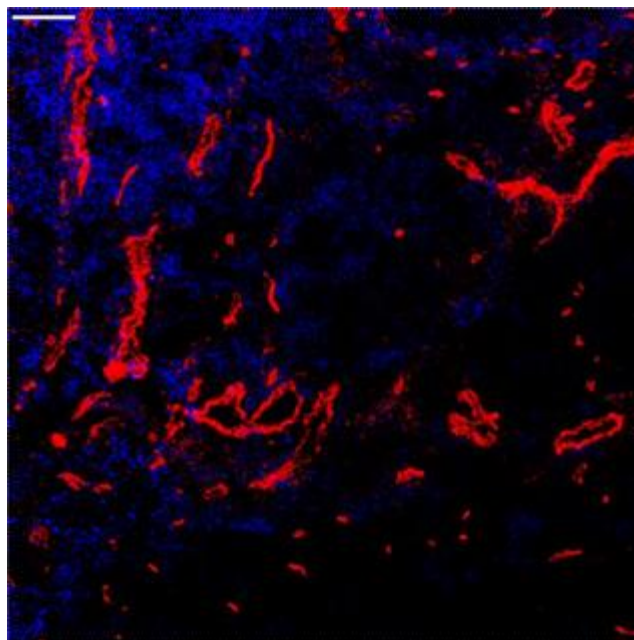
Description

CD31, also known as platelet endothelial cell adhesion molecule-1 (PECAM-1) or endoCAM, is a type I transmembrane glycoprotein. It is expressed by endothelial cells on blood vessels, as well as by monocytes, granulocytes, platelets, and a small subset of T cells. It plays a role in wound healing, angiogenesis, removal of aged neutrophils, and cellular migration in an inflammatory situation.

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 frozen tonsil stained with 151Eu-anti-CD31 (WM59) 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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