

Anti-Human CD68-159Tb

Pathologist-Verified Clone for Imaging Mass Cytometry™

Catalog: 3159035D

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

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

Reactivity: Human

Clone: KP1

Isotype: Mouse IgG1

Formulation: Antibody stabilizer with 0.05% sodium azide

Application: IMC-Paraffin

Technical Information

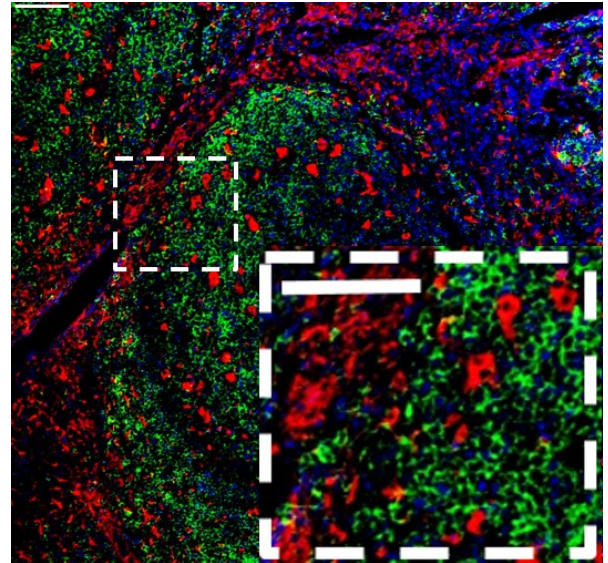
Application: The metal-tagged antibody is designed and formulated for the application of Imaging Mass Cytometry (IMC™) using the Fluidigm Hyperion™ Imaging System on formalin-fixed, paraffin-embedded (FFPE) tissue sections.

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: 1:25 to 1:100

Description

CD68, also known as macrophage marker, is a 110 kDa protein that belongs to the sialomucin family, and it is closely related to the family of highly acidic, highly glycosylated lysosomal-associated membrane proteins (LAMPs). CD68 is predominantly an intracellular protein found in the late endosomal compartment, but it can also be detected in small amounts on the surface of myeloid-derived cells. The function of CD68 is not fully understood, but its structure suggests a role in antigen processing or presentation.



Human tonsil (FFPE) stained with 159Tb-anti-CD68 (KP1) at a dilution of 1:50 (red pseudocolor), 161Dy-anti-CD20 (H1) (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.

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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