

Anti-Human CD107a/LAMP-1-151Eu

Pathologist-Verified Clone for Imaging Mass Cytometry™

Catalog: 3151021D

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

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

Reactivity: Human, Rhesus, Chimpanzee, Olive Baboon, Pigtailed Macaque, African Green

Clone: H4A3

Isotype: Mouse IgG1

Formulation: Antibody stabilizer with 0.05% sodium azide

Application: IMC-Paraffin

Technical Information

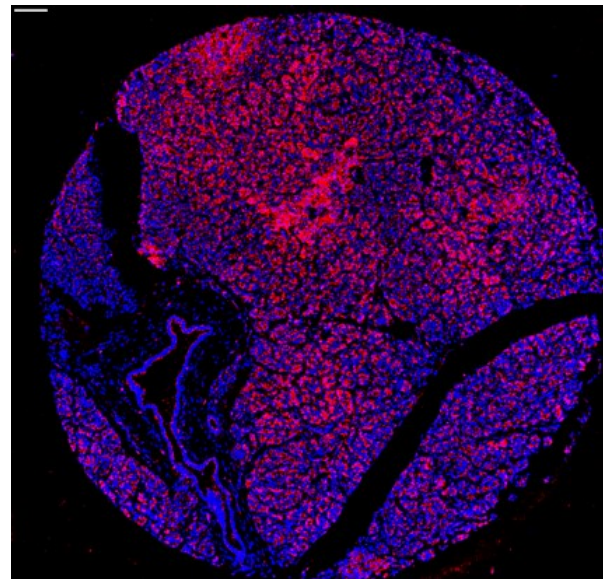
Application: The metal-tagged antibody is designed and formulated for the application of Imaging Mass Cytometry (IMC™) using the Fluidigm Hyperion™ Imaging System on formalin-fixed, paraffin-embedded (FFPE) tissue sections.

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

CD107a, also known as lysosome-associated membrane protein 1 (LAMP-1) or LGP-120, is a 110–140 kDa type I membrane glycoprotein. It is expressed by activated platelets and lymphocytes, macrophages, epithelial cells and endothelial cells. It is also expressed by some tumor cells and may play a role in tumor cell metastasis. Upon activation, CD107a is transferred to the cell membrane surface, where it plays a role in cell adhesion and regulation of tumor metastasis and mediates autoimmune disease progression. Antibody clone H4A3 recognizes an epitope of CD107a that can be exposed on the cell surface or intracellularly.



Human pancreas (FFPE) stained with 151Eu-anti-CD107a (H4A3) at a dilution of 1:50 (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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