

Anti-Human CD107a-151Eu

Catalog: 3151002B

Package Size: 100 tests

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

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

Clone: H4A3

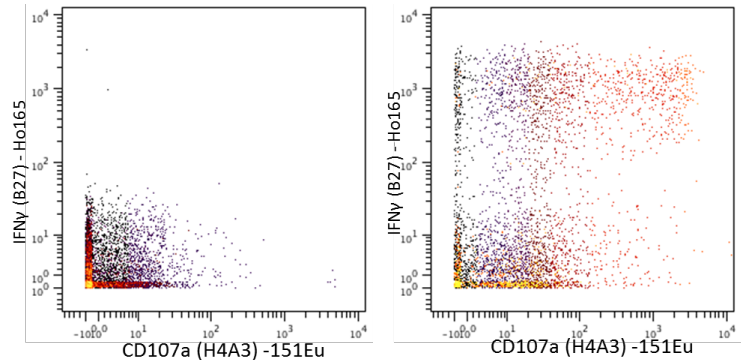
Isotype: IgG1

Formulation: Antibody stabilizer with 0.05% Sodium Azide

Technical Information

Validation: Each lot of conjugated antibody is quality control tested by CyTOF[®] analysis of stained cells using the appropriate positive and negative cell staining and/or activation controls.

Recommended Usage: The suggested use is 1 µl for up to 3 X 10⁶ live cells in 100 µl. It is recommended that the antibody be titrated for optimal performance for each of the desired applications.



Human PBMCs were incubated for 5 hours in media alone (left) or with PMA and Ionomycin (right) in the presence of monensin, brefeldin A and 151Eu-anti-CD107a (H4A3). Cells were then fixed, permeabilized, and stained with 165Ho-anti-IFNγ(B27). CD8+ T cells are displayed in the analysis.

Description

CD107a, also known as Lysosome-Associated Membrane Protein 1 (LAMP-1) or LGP-120, is a 110-140 kD 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, 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.

References

Bandura, D. R., et al. Mass Cytometry: Technique for Real Time Single Cell Multitarget Immunoassay Based on Inductively Coupled Plasma Time-of-Flight Mass Spectrometry. *Analytical Chemistry* 81:6813-6822, 2009.

Newell, E.W., et al. Cytometry by Time-of-Flight Shows Combinatorial Cytokine Expression and Virus-Specific Cell Niches within a Continuum of CD8+ T Cell Phenotypes. *Immunity* 36 January 2012: 142-152.

Ornatsky, O. I., et al. **Highly Multiparametric Analysis by Mass Cytometry.** *J Immunol Methods* 361 (1-2):1-20, 2010.

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