

Anti-Human CD107a (LAMP-1) APC

Catalog Number :19111-80

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: H4A3

Format/Conjugate: APC

Concentration: 5uL (1.0ug)/test

Reactivity: Human

Laser: Red (635 -655nm)

Peak Emission: 660nm

Peak Excitation: 650nm

Filter: 660/20

Brightness (1=dim,5=brightest): 5

Isotype: Mouse IgG1, kappa

Formulation: Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC

Description

The H4A3 monoclonal antibody specifically reacts with human CD107a, a heavily glycosylated type I membrane glycoprotein. CD107a is also known as Lysosomal-associated membrane protein 1 (LAMP-1) and is widely expressed intracellular antigen. It can be found on the surface of PHA-activated lymphocytes, activated platelets, cytotoxic T cells, NK cells, macrophages, epithelial cells, endothelial cells, and some tumor lines. CD107a is a ligand for E-selectin and galactin and is reported to be involved in cell adhesion and tumor metastasis.

Preparation & Storage

The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

References

- 1.Chen, J. W., Cha, Y. I. N. G., Yuksel, K. U., Gracy, R. W., August, J. T. (1988). Isolation and sequencing of a cDNA clone encoding lysosomal membrane glycoprotein mouse LAMP-1. Sequence similarity to proteins bearing onco-differentiation antigens.;Journal of Biological Chemistry.;263(18), 8754-8758.
2. Grützkau, A., Smorodchenko, A., Lippert, U., Kirchhof, L., Artuc, M., Henz, B. M. (2004). LAMP-1 and LAMP-2, but not LAMP-3, are reliable markers for activation-induced secretion of human mast cells.;Cytometry Part A.;61(1), 62-68.
3. Sarafian, V., Jadot, M., Foidart, J. M., Letesson, J. J., Van den Brule, F., Castronovo, V., ... Coninck, W. D. (1998). Expression of Lamp-1 and Lamp-2 and their interactions with galectin-3 in human tumor cells.;International journal of cancer.;75(1), 105-111.