

Anti-Human CD107a (LAMP-1) Purified

Catalog Number :19111-20

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

Product Information

Clone: H4A3

Format/Conjugate: Purified

Concentration: 0.5 mg/mL

Reactivity: Human

Laser: Not Applicable

Peak Emission: Not Applicable

Peak Excitation: Not Applicable

Filter: Not Applicable

Brightness (1=dim,5=brightest): Not Applicable

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.

Applications: FC, IHC, WB, IP

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. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. It is recommended that the reagent be titrated for optimal performance for each application.

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.