

## Anti-Human CD107a (LAMP-1) FITC

Catalogue Number : 19111-50

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

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### Product Information

**Clone:** H4A3

**Format/Conjugate:** FITC

**Concentration:** 0.5 mg/mL

**Reactivity:** Human

**Laser:** Blue (488nm)

**Peak Emission:** 520nm

**Peak Excitation:** 494nm

**Filter:** 530/30

**Brightness (1=dim,5=brightest):** 3

**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.