



## CD107a Antibody [H4A3] (FITC)

CATALOG NUMBER: 76-890

### Specifications

<b>SPECIES REACTIVITY:</b>	Human
<b>TESTED APPLICATIONS:</b>	FACS
<b>USER NOTE:</b>	Optimal dilutions for each application to be determined by the researcher.
<b>SPECIFICITY:</b>	The H4A3 monoclonal antibody specifically reacts with human CD107a, a heavily glycosylated type I membrane glycoprotein.
<b>HOST SPECIES:</b>	Mouse

### Properties

<b>PURIFICATION:</b>	The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.
<b>PHYSICAL STATE:</b>	liquid
<b>BUFFER:</b>	Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, pH7.2.
<b>CONCENTRATION:</b>	0.5 mg/mL
<b>STORAGE CONDITIONS:</b>	The product should be stored undiluted at 4°C and should be protected from prolonged exposure to light. Do not freeze.
<b>CLONALITY:</b>	Monoclonal
<b>ISOTYPE:</b>	Mouse IgG1, kappa
<b>CONJUGATE:</b>	FITC

### Additional Info

<b>ALTERNATE NAMES:</b>	LAMPA, CD107a, LGP120, LAMP1
<b>OFFICIAL SYMBOL:</b>	LAMP1
<b>GENE ID:</b>	3916

### Background

<b>BACKGROUND:</b>	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.
<b>REFERENCES:</b>	<p>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. <i>Journal of Biological Chemistry</i>, 263(18), 8754-8758.</p> <p>2) Grtzkau, 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. <i>Cytometry Part A</i>, 61(1), 62-68.</p> <p>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. <i>International</i></p>

**FOR RESEARCH USE ONLY**

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