

Monoclonal Antibody to CD107a / LAMP1 - FITC

Alternate names:	CD107 Antigen-like Family Member A, LAMP-1, LAMPA, LGP120, Lysosome-associated membrane glycoprotein 1
Catalog No.:	AM08169FC-N
Quantity:	100 Tests
Background:	CD107a, also known as lysosomal-associated membrane protein 1 (LAMP-1), is a heavily glycosylated, type I transmembrane protein that constitutes the major sialoglycoproteins on lysosomal membranes. It is a ligand for galactin, an S-type lectin present in extracellular matrix, through its recognition of acetyllactosamine oligosaccharide chains, and is a ligand for E-selectin-mediated cell adhesion. CD107a is expressed by granulocytes, T cells, macrophages, dendritic cells, activated platelets, tonsillar epithelium and some tumor cell lines, including U937 and KG1a. It is also a widely expressed intracellular antigen. LAMP-1 may function in protecting the inner surface of the lysosomal membrane by forming a barrier to lysosomal hydrolases. The upregulation of both CD107a and CD107b on the surface of tumor cell lines has been associated with their enhanced metastatic potential, where they may increase adhesion to extracellular matrix and endothelium. (Ref.1-7)
Uniprot ID:	P11279
NCBI:	NP_005552.3
GeneID:	3916
Host / Isotype:	Mouse / IgG1
Clone:	H4A3
Format:	State: Liquid purified Ig fraction. Buffer System: PBS containing 0.09% Sodium Azide as preservative. Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: 10 µL/10e6 cells. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognizes CD107a/LAMP-1. Species: Human. Other species not tested.
Storage:	Store the antibody undiluted at 2-8°C for one month or in (aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Schlossman, S., L. Bloumsell, W. Gilks, J.M. Harlan, C. Kishimoto, J. Ritz, S. Shaw, R. Silverstein, T. Springer, T.F. Tedder, and R.F. Todd, eds. 1995. Leukocyte Typing V: White

For research and in vitro use only. Not for diagnostic or therapeutic work.

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Cell Differentiation Antigens, Oxford University Press, Oxford.

2. Barclay, A.N., M.H. Brown, S.K.A. Law, A.J. McKnight, M.G. Tomlinson, and P.A. van der Merwe, eds. 1997. The Leukocyte Antigens Facts Book, 2nd Edition, CD107a, 107b Section, Academic Press, New York, p. 389.

3. Sawada, R., K.A. Jardine, and M. Fukuda. 1993. J. Biol. Chem. 268:9014.

4. Febbraio, M., and R.L. Silverstein. 1990. J. Biol. Chem. 265:18531.

5. Chen, J.W., Y. Cha, K.U. Yuksel, R.W. Gracy, and J.T. August. 1988. J. Biol. Chem. 263:8754.

6. Sawada, R., J.B. Lowe, and M. Fukuda. 1993. J. Biol. Chem. 268:12675.

7. Sawada, R., S. Tsuboi, and M. Fukuda. 1994. J. Biol. Chem. 269:1425.

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