

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.:	AM08087FC-N
Quantity:	0.5 mg
Concentration:	0.5 mg/ml
Background:	<p>CD107a, also known as lysosomal-associated membrane protein 1 (LAMP-1), is a heavily glycosylated, type I transmembrane protein that constitutes one of the two major sialoglycoproteins on lysosomal membranes that can be used to distinguish lysosomes from other organelles. (Ref.1) 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. (Ref.2)</p> <p>CD107a is principally expressed in epithelial cells and macrophages in a variety of organs in normal and Beige mutant mice. (Ref.3)</p> <p>LAMP-1 may function in protecting the inner surface of the lysosomal membrane by forming a barrier to lysosomal hydrolases. (Ref.4)</p>
Uniprot ID:	P11438
NCBI:	NP_034814.2
GeneID:	16783
Host / Isotype:	Rat / IgG2a
Clone:	1D4B
Immunogen:	Plasma membrane fraction of mouse embryo NIH3T3 cell line. (Ref.1)
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: < / = 1 µg/10e6 cells. (Ref.5) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody is specific to CD107a/LAMP-1 (Mr 110-140 kDa with a core protein of Mr ~40 kDa). Species: Mouse. 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.

For research and in vitro use only. Not for diagnostic or therapeutic work.
Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

- General Readings:**
1. Chen, J.W., W. Pan, M.P. d'Souza and J.T. August. 1985. Arch. Biochem. Biophys.
 2. Arterburn, L.M., B.J. Earles, and J.T. August. 1990. J. Biol. Chem. 265:7419.
 3. Chen, J.W., G.L. Chen, M.P. d'Souza, T.L. Murphy, and J.T. August. 1986. Biochem.
 4. Fukuda, M. 1991. J. Biol. Chem. 266:21327.
 5. Southern Biotechnology Associates, Inc. Unpublished observations.
 6. Rohrer, J., A. Schweizer, D. Russell, and S. Kornfeld. 1996. J. Cell. Biol. 132:565.

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