

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.:	AM05888FC-N
Quantity:	0.1 mg
Concentration:	0.1 mg/ml
Background:	Lysosome associated membrane protein (LAMP1), also known as lgp120 or lgpA, is a type 1 integral membrane protein that is transported from trans Golgi networks to endosomes and then lysosomes. Upon cell activation, LAMP1 transfer to the plasma membrane is dependent on a carboxyl terminal tyrosine based motif (YXXI). Perturbation in the spacing between the tyrosine based motif relative to the membrane abolishes lysosome localization of LAMP1. This mutant protein then cycles between the plasma membrane and the endosome. Cell surface LAMP1 and LAMP2 have been shown to promote adhesion of human peripheral blood mononuclear cells (PBMC) to vascular endothelium, therefore they are possibly involved in the adhesion of PBMCS to the site of inflammation.
Uniprot ID:	Q5K4G2
NCBI:	NP_001011507.1
GeneID:	494565
Host / Isotype:	Mouse / IgG1
Clone:	4E9/11
Immunogen:	Porcine alveolar Macrophages. Spleen cells from immunised BALB/c mice were fused with cells of the mouse X63-Ag.8.653 myeloma cell line.
Format:	State: Liquid purified IgG fraction Purification: Affinity Chromatography on Protein G. Buffer System: PBS, pH 7.4 containing 0.09% Sodium Azide as preservative and 1% BSA as stabilizer. Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: Use 10 µl of Neat antibody to label 10e6 cells in 100 µl (Membrane permeabilisation is required). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody is specific for Porcine CD107a, a cell surface antigen that is also known as lysosomal-associated membrane protein-1 (LAMP-1). CD107a is expressed on macrophages and more weakly on monocytes and granulocytes.
Species Reactivity:	Tested: Pig.

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
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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. Bullido R, Gómez del Moral M, Alonso F, Ezquerro A, Zapata A, Sánchez C, et al. Monoclonal antibodies specific for porcine monocytes/macrophages: macrophage heterogeneity in the pig evidenced by the expression of surface antigens. *Tissue Antigens*. 1997 Apr;49(4):403-13. PubMed PMID: 9151393.
2. Carrillo A, Chamorro S, Rodríguez-Gago M, Alvarez B, Molina MJ, Rodríguez-Barbosa JI, et al. Isolation and characterization of immortalized porcine aortic endothelial cell lines. *Vet Immunol Immunopathol*. 2002 Oct 8;89(1-2):91-8. PubMed PMID: 12208054.
3. Domenech N, Rodríguez-Carreño MP, Filgueira P, Alvarez B, Chamorro S, Domínguez J. Identification of porcine macrophages with monoclonal antibodies in formalin-fixed, paraffin-embedded tissues. *Vet Immunol Immunopathol*. 2003 Jul 15;94(1-2):77-81. PubMed PMID: 12842613.
4. Sánchez-Torres C, Gómez-Puertas P, Gómez-del-Moral M, Alonso F, Escribano JM, Ezquerro A, et al. Expression of porcine CD163 on monocytes/macrophages correlates with permissiveness to African swine fever infection. *Arch Virol*. 2003 Dec;148(12):2307-23. Epub 2003 Sep 16. PubMed PMID: 14648288.

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