ARG54627
anti-CD107a / LAMP1 antibody [LY1C6]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [LY1C6] recognizes CD107a / LAMP1
Tested Reactivity	Rat, Hm
Tested Application	ICC/IF, IP, WB
Specificity	This antibody recognizes LAMP1 of rat andhamster.
Host	Mouse
Clonality	Monoclonal
Clone	LY1C6
Isotype	IgG1
Target Name	CD107a / LAMP1
Species	Rat
Immunogen	Rat liver lysosome membranes
Conjugation	Un-conjugated
Alternate Names	LGP120; CD107a; LAMPA; CD antigen CD107a; Lysosome-associated membrane glycoprotein 1; CD107 antigen-like family member A; LAMP-1; Lysosome-associated membrane protein 1

Application Instructions

Application Note	Western blot: use at 1 ug/ml. A band of ~120 kDa is detected. Immunocytochemistry: use at 5 - 10 ug/ml. Immunoprecipitation: use at 5 ug/ml Affinity purification of LAMP1: use at 2 - 4mg/ml of CnBR - activated Sepharose 4B. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	Rat liver microsomes

Properties

Form	Liquid
Purification	Protein G affinity chromatography
Buffer	PBS (pH 7.4), 50% Glycerol and 0.09% Sodium azide
Preservative	0.09% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 25328 Rat Swiss-port # P14562 Rat
Gene Symbol	Lamp1
Gene Full Name	lysosomal-associated membrane protein 1
Background	Lysosome-associated membrane proteins(LAMP1 and LAMP2) are major constituentsof the lysosomal membrane. These twoproteins have closely related structures with37% sequence homology. Both aretransmembrane glycoproteins localizedprimarily in lysosomes and late endosomes.Upon cell activation, rapid translocation ofintracellular LAMPs to the cell membrane isdependent on a carboxyl-terminal tyrosinebasedmotif (YXXI). Disruption of thespacing between the tyrosine-based motifabolishes lysosome localization of LAMP1,and the altered protein cycles between themembrane and the endosome. Cell surfaceLAMP1 and LAMP2 promote adhesion ofhuman peripheral blood mononuclear cells(PBMC) to vascular endothelium whichsuggests that they are involved in adhesionof PBMC at sites of inflammation.
Function	Presents carbohydrate ligands to selectins. Also implicated in tumor cell metastasis. [UniProt]
Research Area	Cancer antibody; Cell Death antibody; Controls and Markers antibody; Developmental Biology antibody; Metabolism antibody; Neuroscience antibody; Signaling Transduction antibody; Lysosome Marker antibody
Calculated Mw	45 kDa
PTM	O- and N-glycosylated; some of the 18 N-linked glycans are polylactosaminoglycans. The glycosylation of N-76 is essential for Lassa virus entry into cells.