

ARG54252 anti-CD107b / LAMP2 antibody [H4B4] (APC)

Package: 50 tests

Store at: 4°C

Summary

Product Description	APC-conjugated Mouse Monoclonal antibody [H4B4] recognizes CD107b / LAMP2
Tested Reactivity	Hu
Species Does Not React With	Ms, Rat
Tested Application	FACS
Specificity	The mouse monoclonal antibody H4B4 recognizes CD107b / LAMP2, an extensively glycosylated 100120 kDa widely expressed lysosome-associated protein. HLDA V.; WS Code P007
Host	Mouse
Clonality	Monoclonal
Clone	H4B4
Isotype	IgG1
Target Name	CD107b / LAMP2
Species	Human
Immunogen	Human PBMC
Conjugation	APC
Alternate Names	CD antigen CD107b; LAMPB; CD107b; LGP110; Lysosome-associated membrane glycoprotein 2; LAMP-2; CD107 antigen-like family member B; Lysosome-associated membrane protein 2

Application Instructions

Application table	Application	Dilution
	FACS	10 µl / 10 ⁶ cells

Application Note * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification Note	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.
Buffer	PBS, 0.02% Sodium azide and 0.2% (w/v) high-grade protease free BSA
Preservative	0.02% Sodium azide
Stabilizer	0.2% (w/v) high-grade protease free BSA
Storage instruction	Aliquot and store in the dark at 2-8°C. Keep protected from prolonged exposure to light. Avoid

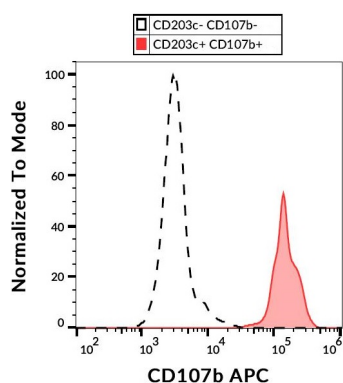
repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Database links	GeneID: 3920 Human Swiss-port # P13473 Human
Gene Symbol	LAMP2
Gene Full Name	lysosomal-associated membrane protein 2
Background	CD107b (lysosome-associated membrane protein-2, LAMP-2), together with CD107a / LAMP-1, is a major constituent of lysosomal membrane. The LAMP proteins are involved in lysosome biogenesis and are required for fusion of lysosomes with phagosomes, especially CD107b is important regulator in successful phagosomal maturation. CD107b deficiency causes an accumulation of autophagosomes in many tissues leading to cardiomyopathy and myopathy (Danons disease). Immature CD107b is an approximately 45 kDa protein, but after extensive glycosylation the mature glycoprotein has about 100-120 kDa.
Function	Implicated in tumor cell metastasis. May function in protection of the lysosomal membrane from autodigestion, maintenance of the acidic environment of the lysosome, adhesion when expressed on the cell surface (plasma membrane), and inter- and intracellular signal transduction. Protects cells from the toxic effects of methylating mutagens. [UniProt]
Research Area	Cell Biology and Cellular Response antibody; Cell Death antibody; Controls and Markers antibody; Developmental Biology antibody; Immune System antibody; Metabolism antibody; Signaling Transduction antibody
Calculated Mw	45 kDa
PTM	O- and N-glycosylated; some of the 16 N-linked glycans are polylactosaminoglycans.

Images



ARG54252 anti-CD107b / LAMP2 antibody [H4B4] (APC) FACS image

Flow Cytometry: IgE-stimulated Human peripheral blood stained with ARG54252 anti-CD107b / LAMP2 antibody [H4B4] (APC).