

Product datasheet for **AM08087AC-N**

Lamp1 Rat Monoclonal Antibody [Clone ID: 1D4B]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1D4B
Applications:	FC
Recommended Dilution:	Flow Cytometry: < / = 0.2 µg/10e6 cells. (Ref.5)
Reactivity:	Mouse
Host:	Rat
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Plasma membrane fraction of mouse embryo NIH3T3 cell line. (Ref.1)
Specificity:	This antibody is specific to CD107a/LAMP-1 (Mr 110-140 kDa with a core protein of Mr ~40 kDa).
Formulation:	PBS containing 0.09% Sodium Azide as preservative and a stabilizing agent Label: APC State: Liquid purified Ig fraction. Label: Allophycocyanin
Concentration:	lot specific
Conjugation:	APC
Storage:	Store the antibody undiluted at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	lysosomal-associated membrane protein 1
Database Link:	Entrez Gene 16783 Mouse P11438



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Background:

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)

CD107a is principally expressed in epithelial cells and macrophages in a variety of organs in normal and Beige mutant mice. (Ref.3)

LAMP-1 may function in protecting the inner surface of the lysosomal membrane by forming a barrier to lysosomal hydrolases. (Ref.4)

Synonyms:

LAMP-1, LAMPA, LGP120