

Product datasheet for **AM08087PU-N**

Lamp1 Rat Monoclonal Antibody [Clone ID: 1D4B]

Product data:

Product Type:	Primary Antibodies
Clone Name:	1D4B
Applications:	EM, FC, IHC, IP, WB
Recommended Dilution:	Flow cytometry: $< / = 1 \mu\text{g}/10\text{e6 cells}$. (Ref.5) Immunohistochemistry on Frozen Sections. (Ref.5) Immunoaffinity Chromatography. (Ref.2) Western blot. (Ref.5) Immunoprecipitation. (Ref.1,3) Immunoelectron Microscopy. (Ref.6)
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:	100 mM Borate Buffered Saline, pH 8.2. No preservatives or amine-containing buffer salts added. State: Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. 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