

## Product datasheet for **AM08169BT-N**

### LAMP1 Mouse Monoclonal Antibody [Clone ID: H4A3]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	H4A3
Applications:	FC
Recommended Dilution:	<b>Flow Cytometry:</b> 10 $\mu$ L/10e6 cells.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	This antibody recognizes CD107a/LAMP-1.
Formulation:	PBS containing 0.09% Sodium Azide as preservative. Label: Biotin State: Liquid purified Ig fraction.
Conjugation:	Biotin
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.
Stability:	Shelf life: one year from despatch.
Gene Name:	lysosomal associated membrane protein 1
Database Link:	<a href="#">Entrez Gene 3916 Human P11279</a>



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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 the major sialoglycoproteins on lysosomal membranes. 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. CD107a is expressed by granulocytes, T cells, macrophages, dendritic cells, activated platelets, tonsillar epithelium and some tumor cell lines, including U937 and KG1a. It is also a widely expressed intracellular antigen. LAMP-1 may function in protecting the inner surface of the lysosomal membrane by forming a barrier to lysosomal hydrolases. The upregulation of both CD107a and CD107b on the surface of tumor cell lines has been associated with their enhanced metastatic potential, where they may increase adhesion to extracellular matrix and endothelium. (Ref.1-7)

**Synonyms:**

LAMP-1, LAMPA, LGP120