

## Product datasheet for **AM08170RP-N**

### LAMP2 Mouse Monoclonal Antibody [Clone ID: H4B4]

#### Product data:

|                       |                                                                                                                                                                               |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Type:         | Primary Antibodies                                                                                                                                                            |
| Clone Name:           | H4B4                                                                                                                                                                          |
| Applications:         | FC                                                                                                                                                                            |
| Recommended Dilution: | <b>Flow Cytometry:</b> 10 µL/10e6 cells.                                                                                                                                      |
| Reactivity:           | Human                                                                                                                                                                         |
| Host:                 | Mouse                                                                                                                                                                         |
| Isotype:              | IgG1                                                                                                                                                                          |
| Clonality:            | Monoclonal                                                                                                                                                                    |
| Specificity:          | This antibody recognizes CD107b/LAMP-2.                                                                                                                                       |
| Formulation:          | PBS containing 0.09% Sodium Azide as preservative and a stabilizing agent.<br>Label: PE<br>State: Liquid purified Ig fraction.<br>Label: R-Phycoerythrin                      |
| Conjugation:          | PE                                                                                                                                                                            |
| Storage:              | Store the antibody undiluted at 2-8°C.<br><b>DO NOT FREEZE!</b><br>This product is photosensitive and should be protected from light.<br>Avoid repeated freezing and thawing. |
| Stability:            | Shelf life: one year from despatch.                                                                                                                                           |
| Gene Name:            | lysosomal associated membrane protein 2                                                                                                                                       |
| Database Link:        | <a href="#">Entrez Gene 3920 Human P13473</a>                                                                                                                                 |



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**Background:**

CD107b, also known as lysosomal-associated membrane protein 2 (LAMP-2), 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.

CD107b 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-2 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-2, LAMP-2C, LAMPB