Rat Anti-Mouse CD107a

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Format</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1920-01</td>
<td>Purified (UNLB)</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>1920-02</td>
<td>Fluorescein (FITC)</td>
<td>0.5 mg</td>
</tr>
<tr>
<td>1920-11</td>
<td>Allophycocyanin (APC)</td>
<td>0.1 mg</td>
</tr>
<tr>
<td>1920-30</td>
<td>Alexa Fluor® 488 (AF488)</td>
<td>0.1 mg</td>
</tr>
<tr>
<td>1920-31</td>
<td>Alexa Fluor® 647 (AF647)</td>
<td>0.1 mg</td>
</tr>
</tbody>
</table>

Overview

Clone 1D4B  
Isotype Rat (Sprague Dawley) IgG2aκ  
Immunogen Plasma membrane fraction of mouse embryo NIH/3T3 cell line  
Specificity Mouse CD107a; Mr 110-140 kDa  
Alternate Name(s) LAMP-1, lysosomal-associated membrane protein 1

Description

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. It is a ligand for galaptin, an S-type lectin present in extracellular matrix, through its recognition of acetyltactosamine oligosaccharide chains and is a ligand for E-selectin-mediated cell adhesion. CD107a is principally expressed in epithelial cells and macrophages in a variety of organs in normal and beige mutant mice. It may function in protecting the inner surface of the lysosomal membrane by forming a barrier to lysosomal hydrolases.

Applications

FC – Quality tested  
IHC-FS – Reported in literature  
IHC-PS – Reported in literature  
ICC – Reported in literature  
EM – Reported in literature  
IP – Reported in literature  
WB – Reported in literature  
ELISA – Reported in literature  
Purification – Reported in literature

Working Dilutions

Flow Cytometry  
Purified (UNLB) antibody  ≤ 1 μg/10⁶ cells  
FITC, AF488, and AF647 conjugates  ≤ 1 μg/10⁶ cells  
APC conjugate  ≤ 0.2 μg/10⁶ cells  
For flow cytometry, the suggested use of these reagents is in a final volume of 100 μL

Other Applications  
Since applications vary, you should determine the optimum working dilution for the product that is appropriate for your specific need.

For Research Use Only. Not for Diagnostic or Therapeutic Use.
Handling and Storage

- The purified (UNLB) antibody is supplied as 0.5 mg of purified immunoglobulin in 1.0 mL of borate buffered saline, pH 8.2. No preservatives or amine-containing buffer salts added. Store at 2-8°C.
- The fluorescein (FITC) conjugate is supplied as 0.5 mg in 1.0 mL of PBS/NaNO₂. Store at 2-8°C.
- The allophycocyanin (APC) conjugate is supplied as 0.1 mg in 1.0 mL of PBS/NaNO₃ and a stabilizing agent. Store at 2-8°C. Do not freeze!
- The Alexa Fluor® 488 (AF488) and Alexa Fluor® 647 (AF647) conjugates are supplied as 0.1 mg in 0.2 mL of PBS/NaNO₃. Store at 2-8°C.
- Protect fluorochrome-conjugated forms from light. Reagents are stable for the period shown on the label if stored as directed.

Warning

Some reagents contain sodium azide. Please refer to product specific (M)SDS.

References


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