

## Purified Anti-Mouse CD107a Antibody[1D4B]

catalog number: E-AB-F1254A

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Description

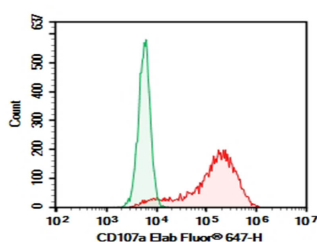
|                     |                                                                                                                                                 |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>   | Mouse                                                                                                                                           |
| <b>Immunogen</b>    | Recombinant Mouse CD107a protein                                                                                                                |
| <b>Host</b>         | Rat                                                                                                                                             |
| <b>Isotype</b>      | Rat IgG2a, $\kappa$                                                                                                                             |
| <b>Clone</b>        | 1D4B                                                                                                                                            |
| <b>Purification</b> | >98%, Protein A/G purified                                                                                                                      |
| <b>Buffer</b>       | Phosphate-buffered solution, pH 7.2, containing 0.05% non-protein stabilizer.<br>Dialyze to completely remove the stabilizer prior to labeling. |

### Applications

### Recommended Dilution

**FCM**  $\leq 0.2 \mu\text{g}$  per million cells in 100  $\mu\text{L}$  volume

### Data



HEK293T cells transfected with pcDNA3.1 plasmid encoding Mouse CD107a gene were stained with 0.2  $\mu\text{g}$  Purified Anti-Mouse CD107a Antibody[1D4B] (Right) and 0.2  $\mu\text{g}$  Rat IgG2a,  $\kappa$  Isotype Control (Left), followed by Elab Fluor® 647-conjugated Goat Anti-Rat IgG Secondary Antibody.

### Preparation & Storage

|                 |                                                                                                    |
|-----------------|----------------------------------------------------------------------------------------------------|
| <b>Storage</b>  | Store at 4°C valid for 12 months or -20°C valid for long term storage, avoid freeze / thaw cycles. |
| <b>Shipping</b> | Ice bag                                                                                            |

### Background

CD107a, also known as Lysosome-Associated Membrane Protein 1 (LAMP-1) or LGP-120, is a 110-140 kD type I membrane glycoprotein. Mature CD107a is heavily glycosylated from a 40 kD core protein. This molecule is located on the luminal side of lysosomes. Upon activation, CD107a is transferred to the cell membrane surface of activated platelets, activated lymphocytes, macrophages, epithelial cells, endothelial cells, and some tumor cells. CD107a has been suggested to play a role in the protection of lysosomal membrane from lysosomal hydrolases which is involved in cell adhesion and regulation of tumor metastasis, and mediates autoimmune disease progression. CD107a is a ligand for galaptin and E-selectin. Surface expression of LAMP-1 has been shown to correlate with CD8+ T cell and NK cell cytotoxicity.

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