

PE/Dazzle™ 594 anti-mouse CD107a (LAMP-1)

Catalog # / Size: 1208120 / 100 µg
1208115 / 25 µg

Clone: 1D4B

Isotype: Rat IgG2a, κ

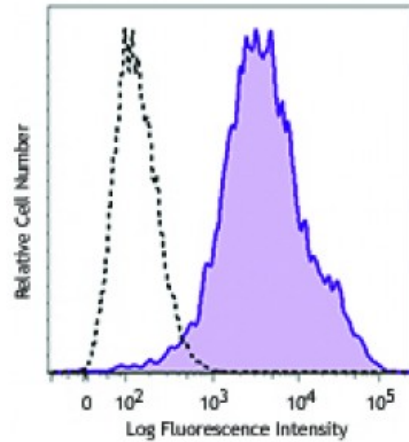
Immunogen: This monoclonal antibody was raised against NIH/3T3 mouse embryo fibroblast tissue culture cell membranes. It has been mapped to the N-terminus of LAMP-1.

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with PE/Dazzle™ 594 under optimal conditions. The solution is free of unconjugated PE/Dazzle™ 594 and unconjugated antibody.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.2



Thioglycollate-elicited Balb/c mouse peritoneal macrophages were stained with CD107a (clone 1D4B) PE/Dazzle™ 594 (filled histogram) or rat IgG2a, κ PE/Dazzle™ 594 isotype control (open histogram).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤0.75 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.

* PE/Dazzle™ 594 has a maximum excitation of 566 nm and a maximum emission of 610 nm.

Application Notes: This antibody is effective in immunoblotting (WB) and immunohistochemistry (IHC).

* Expected MW: 120 kD
WB Positive Control: Mouse 3T3 cell lysate and Mouse Spleen
IHC Positive Control: Mouse Pancreas, Colon, Kidney

Description: 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 galactin and E-selectin. Surface expression of LAMP-1 has been shown to correlate with CD8⁺ T cell and NK cell cytotoxicity.