SONY

Product Data Sheet

FITC anti-human CD107b (LAMP-2)

Catalog # / Size: 2371530 / 100 tests
2371525 / 25 tests

Clone: H4B4

Isotype: Mouse IgG1, κ

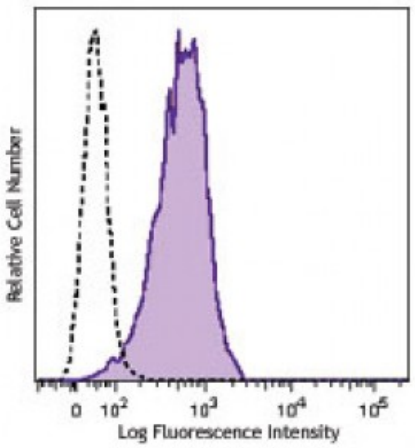
Immunogen: Adult human adherent spleen cells

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography, and conjugated with FITC under optimal conditions. The solution is free of unconjugated FITC.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).

Concentration: Lot-specific



Human acute myeloid leukemia cell line KG1a was fixed, permeabilized, and stained with CD107b (clone H4B4) FITC (filled histogram) or mouse IgG1, κ FITC isotype control (open histogram).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by intracellular immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Additional reported applications (for the relevant formats) include: immunohistochemical staining of frozen glomeruli2 and immunofluorescent staining of neutrophils[2,3].

Application References:

1. Chen J, *et al.* 1985. *J. Biol. Chem.* 101:85.
2. Kain R, *et al.* 2008. *Nat. Med.* 14:1088. (IF, IHC)
3. Roark EA, *et al.* 2008. *PLoS ONE* 3:e3538. (IF)
4. Srivastava R, *et al.* 2015. *J Immunol.* 194:2232. PubMed
5. Khan AA, *et al.* 2015. *J Virol.* 89:3776. PubMed

Description: CD107b, also known as LAMP-2, is a 150 kD, highly gylcosylated, type I transmembrane protein. CD107b is expressed in lysosomal/endosomal membranes in nearly all cells, and on the surface of activated platelets, activated lymphocytes and some tumor cell lines. LAMP-2 is known to have roles in cell adhesion and cellular homeostasis, including autophagocytosis and antigen presentation.

Antigen References:

1. Chen J, *et al.* 1985. *J. Biol. Chem.* 101:85.
2. Kain R, *et al.* 2008. *Nat. Med.* 14:1088.
3. Roark EA, *et al.* 2008. *PLoS ONE* 3:e3538.

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