

Purified anti-human CD107b (LAMP-2)

Catalog # / Size: 2371510 / 100 µg
2371505 / 25 µg

Clone: H4B4

Isotype: Mouse IgG1, κ

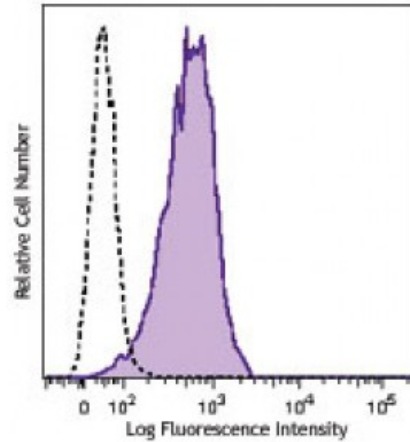
Immunogen: Adult human adherent spleen cells

Reactivity: Human

Preparation: The antibody was purified by affinity chromatography.

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

Concentration: 0.5



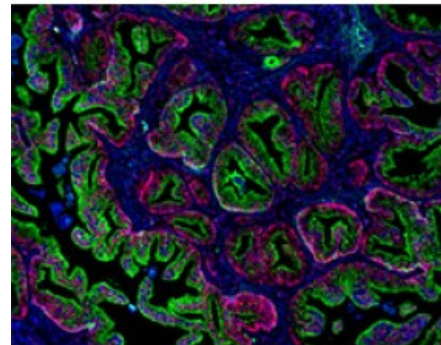
Human acute myeloid leukemia cell line KG1a was fixed, permeabilized, and stained with CD107b (clone H4B4) PE (filled histogram) or mouse IgG1, κ PE isotype control (open histogram).

Applications:

Applications: Immunofluorescence

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 ≤0.5 microg per million cells in 100 microL volume. For immunohistochemical staining on formalin-fixed paraffin-embedded tissue sections, the suggested use of this reagent is 5.0 - 10 microg per ml. 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}.



Human paraffin-embedded prostate tissue slice was stained with purified anti-human CD107b (clone H4B4) followed by goat anti-mouse IgG (clone Poly4053) DyLight™ 488 (green) and anti-human CD44 (clone IM7) Alexa Fluor® 594 (red). The nuclei were

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)

Description: CD107b, also known as LAMP-2, is a 105 kD, highly glycosylated, 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.