SONY

Product Data Sheet

Purified anti-human CD107b (LAMP-2)

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

Clone: H4B4

Isotype: Mouse IgG1, κ

Immunogen: Adult human adherent spleen cells

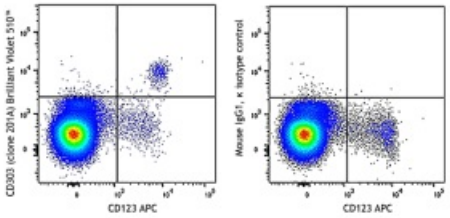
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography.

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

Workshop Number: HCDM listed

Concentration: 0.5

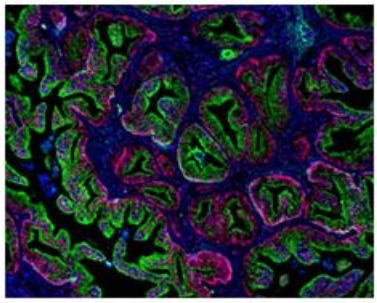


Human peripheral blood lymphocytes were stained with CD123 APC, and CD303 (BDCA-2, clone 201A) Brilliant Violet 510™ (left) or mouse IgG1, κ Brilliant Violet 510™ isotype control (right).

Applications:

Applications: Immunohistochemistry, Other, Intracellular Staining for Flow Cytometry, Immunocytochemistry

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 µg per million cells in 100 µl volume. For immunohistochemical staining on formalin-fixed paraffin-embedded tissue sections, the suggested use of this reagent is 5.0 - 10 µg per ml. For Western blotting, the suggested use of this reagent is 1.0 - 5.0 µg per ml. For immunocytochemistry, a concentration range of 5.0 - 10 µg per ml is recommended. It is recommended that the reagent be titrated for optimal performance for each application.



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

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

This antibody is specific to human LAMP-2. Positive control: Hela cells; LAMP-2 molecular weight appears to be at ~110 kDa on the gel due to high glycosylation.

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 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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