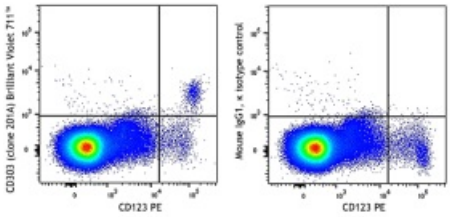
SONY

Product Data Sheet

Purified anti-human CD107b (LAMP-2)

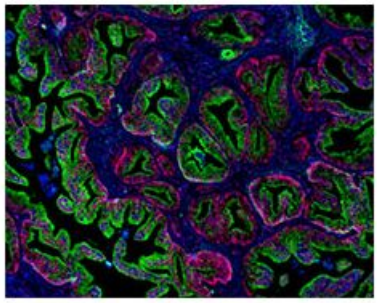
Catalog # / Size:	2371510 / 100 µg 2371505 / 25 µg
Clone:	H4B4
Isotype:	Mouse IgG1, κ
Immunogen:	Adult human adherent spleen cells
Reactivity:	Human
Preparation:	The antibody was purified by affinity chromatography.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Workshop Number:	HCDM listed
Concentration:	0.5



Human peripheral blood lymphocytes were stained with CD123 PE, and CD303 (BDCA-2, clone 201A) Brilliant Violet 711™ (left) or Mouse IgG1, κ Brilliant Violet 711™ 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

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.

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.

For research use only. Not for diagnostic use. Not for resale. Sony Biotechnology Inc. will not be held responsible for patent infringement or other violations that may occur with the use of our products.