

Alexa Fluor® 647 anti-human CD107b (LAMP-2)

Catalog # / 2371555 / 25 tests
Size: 2371560 / 100 tests

Clone: H4B4

Isotype: Mouse IgG1, κ

Immunogen: Adult human adherent spleen cells

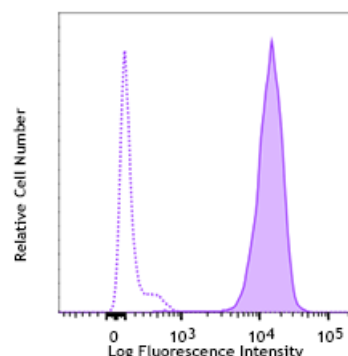
Reactivity: Human

Preparation: The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.

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

Workshop Number: HCDM listed

Concentration: Lot-specific



Human acute myeloid leukemia cell line KG1a was fixed, permeabilized, and stained with CD107b (clone H4B4) Alexa Fluor® 647 (filled histogram) or mouse IgG1, κ Alexa Fluor® 647 isotype control (open histogram).

Applications:

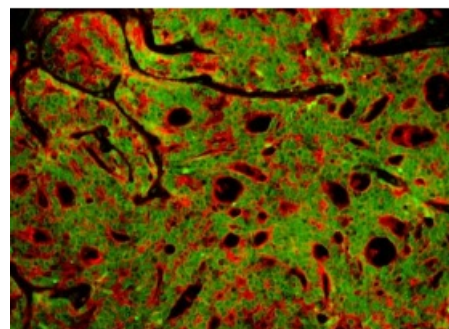
Applications: Immunohistochemistry, Intracellular Flow Cytometry

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 µl per million cells or 5 µl per 100 µl of whole blood. For immunohistochemistry, a concentration of 10 µg/ml is suggested. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.

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.
 3. Roark EA, *et al.* 2008. *PLoS ONE* 3:e3538.



Human paraffin-embedded prostate tissue slice were prepared with a standard protocol of deparaffinization and rehydration. Antigen retrieval was done with Citrate Buffer 1X (1.0M, pH 7.4) at 95°C for 40 minutes. Tissue was washed with PBS/0.05% Tween

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.