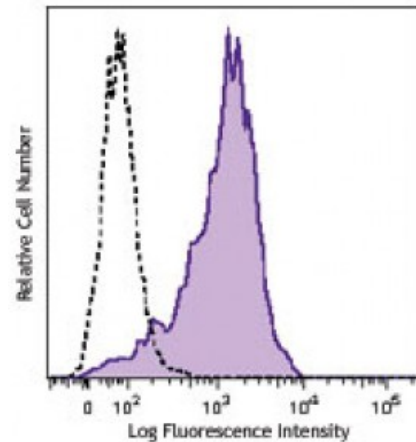


PE anti-human CD107b (LAMP-2)

Catalog # / Size:	2371520 / 100 tests 2371515 / 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 PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.
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) PE (filled histogram) or mouse IgG1, κ PE 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 μ L per million cells or 5 μ L per 100 μ L 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)

Description: CD107b, also known as LAMP-2, is a 150 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.