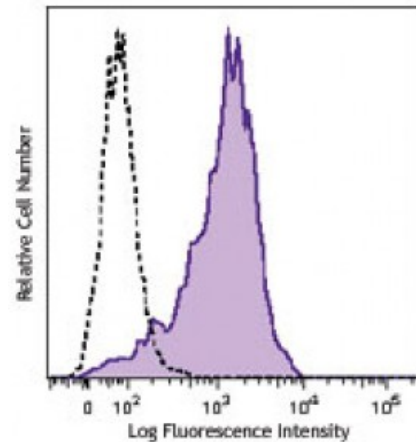


**PE anti-human CD107b (LAMP-2)**

<b>Catalog # / Size:</b>	2371515 / 25 tests 2371520 / 100 tests
<b>Clone:</b>	H4B4
<b>Isotype:</b>	Mouse IgG1, $\kappa$
<b>Immunogen:</b>	Adult human adherent spleen cells
<b>Reactivity:</b>	Human
<b>Preparation:</b>	The antibody was purified by affinity chromatography and conjugated with PE under optimal conditions. The solution is free of unconjugated PE and unconjugated antibody.
<b>Formulation:</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
<b>Concentration:</b>	Lot-specific



Human acute myeloid leukemia cell line KG1a was fixed, permeabilized, and stained with CD107b (clone H4B4) PE (filled histogram) or mouse IgG1,  $\kappa$  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  $\mu$ L per million cells or 5  $\mu$ L per 100  $\mu$ 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 glomeruli<sup>2</sup> and immunofluorescent staining of neutrophils<sup>2,3</sup>.

**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.