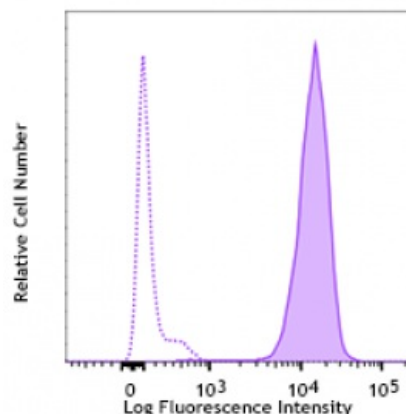


**Alexa Fluor® 647 anti-human CD107b (LAMP-2)**

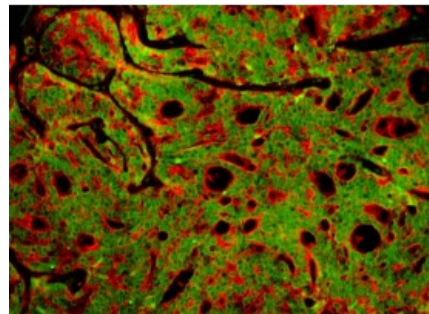
<b>Catalog # / Size:</b>	2371555 / 25 tests 2371560 / 100 tests
<b>Clone:</b>	H4B4
<b>Isotype:</b>	Mouse IgG1, $\kappa$
<b>Immunogen:</b>	Adult human adherent spleen cells
<b>Reactivity:</b>	Human
<b>Preparation:</b>	The antibody was purified by affinity chromatography and conjugated with Alexa Fluor® 647 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 647.
<b>Formulation:</b>	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and 0.2% (w/v) BSA (origin USA).
<b>Workshop Number:</b>	HCDM listed
<b>Concentration:</b>	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,  $\kappa$  Alexa Fluor® 647 isotype control (open histogram).

**Applications:**

<b>Applications:</b>	Immunohistochemistry, Intracellular Flow Cytometry
<b>Recommended Usage:</b>	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. For immunohistochemistry, a concentration of 10 $\mu$ g/ml is suggested. It is recommended that the reagent be titrated for optimal performance for each application.



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

<b>Application Notes:</b>	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> .
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<b>Application References:</b>	1. Chen J, <i>et al.</i> 1985. <i>J. Biol. Chem.</i> 101:85. 2. Kain R, <i>et al.</i> 2008. <i>Nat. Med.</i> 14:1088. 3. Roark EA, <i>et al.</i> 2008. <i>PLoS ONE</i> 3:e3538.
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- 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.