

APC/Cyanine7 anti-human CD11a

Catalog # / Size: 2106175 / 25 tests
2106180 / 100 tests

Clone: HI111

Isotype: Mouse IgG1, κ

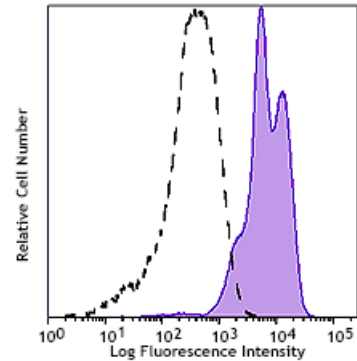
Reactivity: Human, Non-human primate, Other

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Cyanine7 under optimal conditions.

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

Workshop Number: IV N231

Concentration: Lot-specific



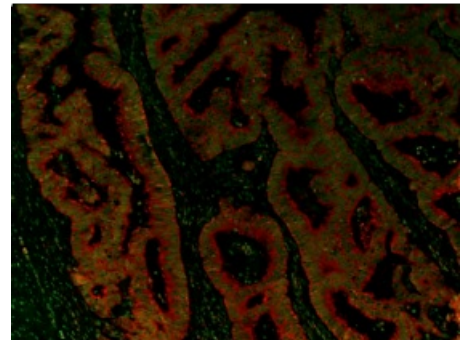
Human peripheral blood lymphocytes were stained with CD11a (clone HI111) APC/Cyanine7 (filled histogram) or mouse IgG1, κ isotype control APC/Cyanine7 (open histogram).

Applications:

Applications: Flow Cytometry

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is 5 μL per million cells in 100 μL staining volume or 5 μL per 100 μL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Application Notes: Clone HI111 epitope maps to the top region of the I domain that is close to the putative ligand-binding site surrounding the MIDAS (metal ion-dependent adhesion site). HI111 is specific for the closed confirmation of the integrin⁸. Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen sections, Western blotting², and blocking of cell-cell interaction and inhibition the binding of ICAM-1⁴. This clone was tested in-house and does not work on formalin fixed paraffin-embedded (FFPE) tissue.



**Application
References:**

1. Knapp W, et al. 1989. Leucocyte Typing IV. Oxford University Press New York.
 2. Leite F, et al. 2002. *Infect. Immun.* 70:4336.
 3. Jiang Y, et al. 2005. *Clin. Hemorheol. Microcircul.* 32:261.
 4. BTchard D, et al. 2001. *J. Immunol.* 167:3099.
 5. Sithu SD, et al. 2007. *J. Biol. Chem.* doi:10.1074/jbc.M611273200.
 6. Choi EY, et al. 2008. *Blood* 111:3607. [PubMed](#)
 7. Yoshino N, et al. 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)
 8. Ma Q, et al. 2002. *J. Biol. Chem.* 277:10638.
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Description: CD11a is a 170-180 kD type I transmembrane glycoprotein also known as LFA-1 α chain and integrin α_L subunit. CD11a non-covalently associates with integrin β_2 (CD18) to form LFA-1. It is expressed on all leukocytes, including B and T lymphocytes, monocytes, macrophages, neutrophils, basophils and eosinophils. It is absent on non-hematopoietic tissues and platelets. CD11a plays a central role in leukocyte cell-cell interactions and is important in lymphocyte costimulation. CD11a/CD18 binds to ICAM-1 (CD54), ICAM-2 (CD102), and ICAM-3 (CD50).

**Antigen
References:**

1. Lub M, et al. 1995. *Immunol. Today* 16:479.
2. Parsons J. 1996. *Curr. Opin. Cell Biol.* 8:146.