

Product Data Sheet

APC anti-human CD11a

Catalog # / Size: 301212 / 100 tests

Clone: HI111

Isotype: Mouse IgG1, κ

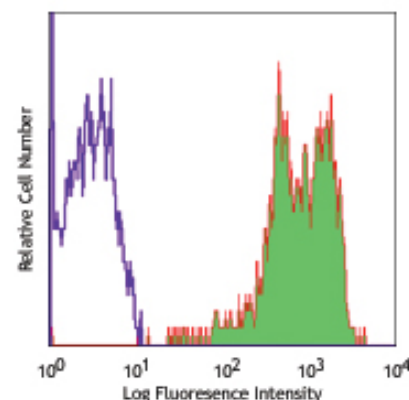
Workshop Number: IV N231

Reactivity: Human, **Cross-Reactivity:** Chimpanzee, Baboon, Capuchin Monkey, Horse (Equine), Cattle (Bovine, Cow), Sheep (Ovine), Dog (Canine), Rabbit (Lapine)

Preparation: The antibody was purified by affinity chromatography, and conjugated with APC under optimal conditions. The solution is free of unconjugated APC and unconjugated antibody.

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

Storage: The antibody solution should be stored undiluted at 4°C and protected from prolonged exposure to light. **Do not freeze.**



Human peripheral blood lymphocytes stained with HI111 APC

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. **Test size products are transitioning from 20 μ l to 5 μ l per test.** Please check your vial or your CoA to find the suggested use of this reagent per million cells in 100 μ l staining volume or per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application. Read more at www.biolegend.com/testsize regarding the test size change.

Application Notes: 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. The LEAF™ purified antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 μ m filtered) is recommended for functional assays (Cat. No. 301214).

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. Bécharde 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)

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.

Related Products:

Product	Clone	Application
PE anti-human CD11c	3.9	FC
PE anti-human CD11b (activated)	CBRM1/5	FC
APC anti-human CD11b	ICRF44	FC
PE anti-human CD18	TS1/18	FC
APC Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC
PE anti-human CD50	MEM-171	FC
Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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