

Product Data Sheet

Biotin anti-human CD11a

Catalog # / Size: 301204 / 100 µg

Clone: HI111

Isotype: Mouse IgG1, κ

Workshop Number: IV N231

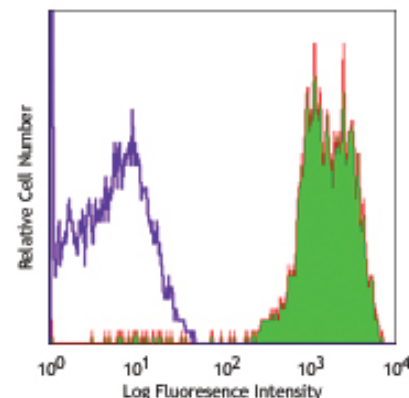
Reactivity: Human, **Cross-Reactivity:** Chimpanzee, Baboon, Capuchin Monkey, Horse (Equine), Cattle (Bovine, Cow), Sheep (Ovine), Dog (Canine), Rabbit (Lapine)

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

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.

Concentration: 0.5 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. **Do not freeze.**



Human peripheral blood lymphocytes stained with biotinylated HI111, followed by Sav-PE

Applications:

Applications: FC - Quality tested

Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For immunofluorescent staining, the suggested use of this reagent is ≤0.5 µg per million cells in 100 µl volume. 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 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/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 301214).

Application References:

- Knapp W, *et al.* 1989. Leucocyte Typing IV. Oxford University Press New York.
- Leite F, *et al.* 2002. *Infect. Immun.* 70:4336.
- Jiang Y, *et al.* 2005. *Clin. Hemorheol. Microcircul.* 32:261.
- Bécharde D, *et al.* 2001. *J. Immunol.* 167:3099.
- Sithu SD, *et al.* 2007. *J. Biol. Chem.* doi:10.1074/jbc.M611273200.
- Choi EY, *et al.* 2008. *Blood* 111:3607. PubMed
- 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-1α chain and integrin α_L subunit. CD11a non-covalently associates with integrin β₂ (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:

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

Related Products:

Product
 PE anti-human CD11c
 PE anti-human CD11b (activated)
 Biotin anti-human CD11b
 Biotin anti-human CD18
 Biotin Mouse IgG1, κ Isotype Ctrl
 APC Streptavidin
 APC/Cy7 Streptavidin
 Cy5 Streptavidin
 FITC Streptavidin
 HRP Streptavidin
 PE Streptavidin
 PE/Cy5 Streptavidin
 PE/Cy7 Streptavidin
 Cell Staining Buffer
 RBC Lysis Buffer (10X)
 PE anti-human CD50
 Human TruStain FcX™ (Fc Receptor Blocking Solution)

Clone
 3.9
 CBRM1/5
 ICRF44
 TS1/18
 MOPC-21

MEM-171

Application

FC
 FC
 FC
 FC
 FC, ICFC
 FC, ICFC
 FC, ICFC
 FC, ICFC
 FC, ICFC
 ELISA, ELISPOT, IHC, WB
 FC, ICFC
 FC, ICFC
 FC, ICFC
 FC, ICFC
 FC, ICC, ICFC
 FC, ICFC
 FC
 FC, ICC, ICFC



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