

Product Data Sheet

LEAF™ Purified anti-human CD11a

Catalog # / Size: 301213 / 50 µg
301214 / 500 µg

Clone: HI111

Isotype: Mouse IgG1, κ

Workshop Number: IV N231

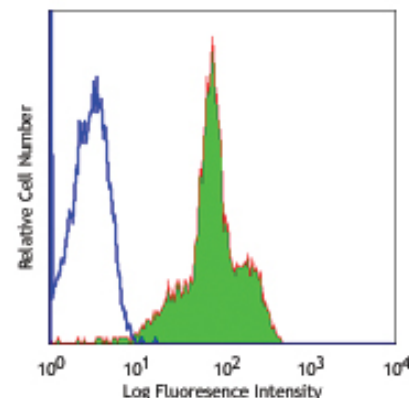
Reactivity: Human, **Cross-Reactivity:** Chimpanzee, Baboon, Capuchin Monkey, Horse (Equine), Cattle (Bovine, Cow), Sheep (Ovine), Dog (Canine), Rabbit (Lapine)

Preparation: The LEAF™ (Low Endotoxin, Azide-Free) antibody was purified by affinity chromatography.

Formulation: 0.2 µm filtered in phosphate-buffered solution, pH 7.2, containing no preservative. Endotoxin level is <0.1 EU/µg of the protein (<0.01 ng/µg of the protein) as determined by the LAL test.

Concentration: 1.0 mg/ml

Storage: The antibody solution should be stored undiluted at 4°C. This LEAF™ solution contains no preservative; handle under aseptic conditions.



Human peripheral blood lymphocytes stained with LEAF™ purified HI111, followed by anti-mouse IgGs FITC

Applications:

Applications: FC - *Quality tested*
Block, IHC, WB - *Reported in the literature*

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 10⁶ cells in 100 µl volume or 100 µl 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 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
 Purified anti-human CD11c
 Purified anti-human CD11b (activated)
 LEAF™ Purified anti-human CD11b
 Purified anti-human CD18
 LEAF™ Purified Mouse IgG1, κ Isotype Ctrl
 Cell Staining Buffer
 RBC Lysis Buffer (10X)
 Purified anti-human CD50

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

 MEM-171

Application
 FC, IHC, CyTOF®
 FC, IP
 Block, FC, IF, IHC, CyTOF®
 FC
 FC, ICFC, WB, IP, ICC, IF, FA
 FC, ICC, ICFC
 FC, ICFC
 FC, IP



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