

Product Data Sheet

Alexa Fluor® 488 anti-human CD11c

Catalog # / Size: 301617 / 25 tests
301618 / 100 tests

Clone: 3.9

Isotype: Mouse IgG1, κ

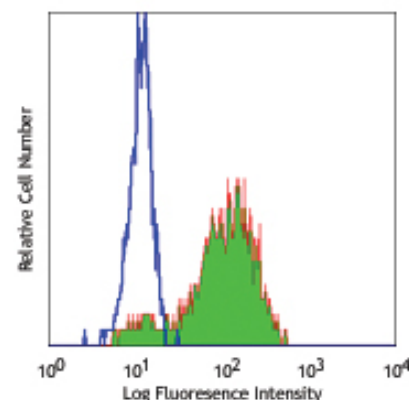
Workshop Number: III NL707

Reactivity: Human, **Cross-Reactivity:** Chimpanzee, Baboon, African Green, Cynomolgus, Rhesus, Squirrel Monkey

Preparation: The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 488 under optimal conditions. The solution is free of unconjugated Alexa Fluor® 488.

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 monocytes stained with 3.9 Alexa Fluor® 488

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 5 μ l per million cells or 5 μ l per 100 μ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

* Alexa Fluor® 488 has a maximum emission of 519 nm when it is excited at 488 nm.

** Alexa Fluor® is a registered trademark of Molecular Probes, Inc. Alexa Fluor® dye antibody conjugates are sold under license from Molecular Probes, Inc. for research use only, except for use in combination with microarrays and high content screening, and are covered by pending and issued patents.

Application Notes: Clone 3.9 preferentially binds the activated form of CD11c, is specific for I domain of CD11c, and is able to partially block the binding of CD11c and ICAM-4. 3.9 binding is divalent cation dependent.¹² Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections⁴, and functional assays^{5,6}. The LEAF™ purified antibody (Endotoxin <0.1 EU/ μ g, Azide-Free, 0.2 μ m filtered) is recommended for functional assays (Cat. No. 301616). For highly sensitive assays, we recommend Ultra-LEAF™ purified antibody (Cat. No. 301632) with a lower endotoxin limit than standard LEAF™ purified antibodies (Endotoxin <0.01 EU/ μ g).

Application References:

- Schlossman S, et al. Eds. 1995. Leucocyte Typing V. Oxford University Press. New York.
- Knapp W, et al. 1989. Leucocyte Typing IV Oxford University Press. New York.
- McMichael A, et al. Eds. 1987. Leucocyte Typing III Oxford University Press. New York.
- Vainer B, et al. 2000. *Am. J. Surg. Pathol.* 24:1115. (IHC)
- Ottonello L, et al. 1999. *Blood* 93:3505.
- Metelitsa LS, et al. 2002. *Blood* 99:4166.
- Sadhu C, et al. 2007. *J. Leukoc. Biol.* doi:10.1189/jlb.1106680. PubMed
- Ihanus E, et al. 2007. *Blood* 109:802-810.
- Gurer C, et al. 2008. *Blood* 112:1231. PubMed
- Asai A, et al. 2009. *J. Lipid Res.* 50:95. PubMed
- Yoshino N, et al. 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)
- Sadhu C, et al. 2008. *J. Immunol.* 181:2942. (FC)

Description: CD11c is a 145-150 kD type I transmembrane glycoprotein also known as integrin α_x and CR4. CD11c non-covalently associates with integrin β_2 (CD18) and is expressed on monocytes/macrophages, dendritic cells, granulocytes, NK cells, and subsets of T and B cells. CD11c has been reported to play a role in adhesion and CTL killing through its interactions with fibrinogen, CD54, and iC3b.

Antigen References:

- Petty H. 1996. *Immunol. Today* 17:209.
- Springer T. 1994. *Cell* 76:301.
- Ihanus E, et al. 2007. *Blood* 109:802-810.

Related Products:	Product	Clone	Application
	Cell Staining Buffer		FC, ICC, ICFC
	RBC Lysis Buffer (10X)		FC, ICFC
	Alexa Fluor® 488 Mouse IgG1, κ Isotype Ctrl (FC)	MOPC-21	FC, IF
	Human TruStain FcX™ (Fc Receptor Blocking Solution)		FC, ICC, ICFC



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