

**violetFluor™ 450 Anti-Human CD11c (3.9) Antibody**  
**Catalog # ATB10399****Specification****violetFluor™ 450 Anti-Human CD11c (3.9) Antibody - Product Information**

Application	FC
Isotype	Mouse IgG1, kappa
Concentration	5 uL (0.5 ug)/test
Reactivity	Human
Formulation	10 mM NaH <sub>2</sub> PO <sub>4</sub> , 150 mM NaCl, 0.09% NaN <sub>3</sub> , 0.1% gelatin, pH7.2
Host	Mouse

**violetFluor™ 450 Anti-Human CD11c (3.9) Antibody - Additional Information**

Gene ID	3687
Gene Name	ITGAX
Alternative Name(s)	
CR4, integrin _X, ITGAX	

**Format**

violetFluor™ 450

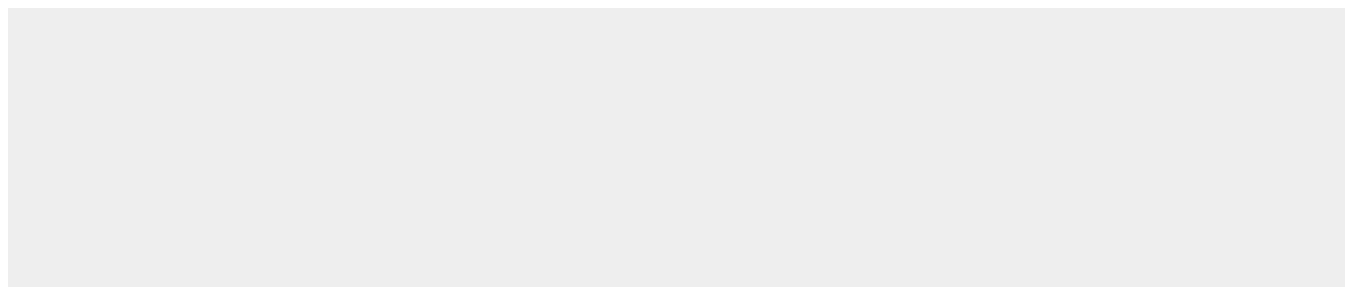
**Storage Conditions**

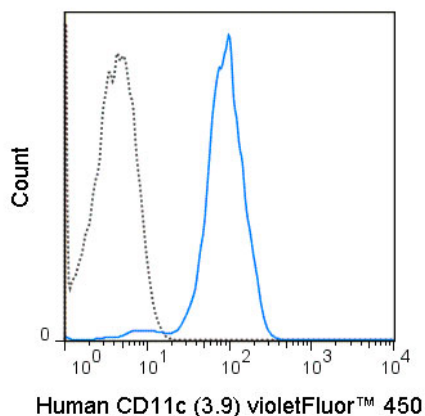
2-8°C protected from light

**violetFluor™ 450 Anti-Human CD11c (3.9) Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**violetFluor™ 450 Anti-Human CD11c (3.9) Antibody - Images**



Human peripheral blood monocytes were stained with 5 uL (0.5 ug) violetFluor™ 450 Anti-Human CD11c (ATB10399) (solid line) or 0.5 ug violetFluor™ 450 Mouse IgG1 isotype control (dashed line).

### **violetFluor™ 450 Anti-Human CD11c (3.9) Antibody - Background**

The 3.9 antibody reacts with human CD11c, also known as integrin alpha X. This 150 kDa cell surface glycoprotein is part of a family of integrin receptors that mediate adhesion between cells (cell-cell) and components of the extracellular matrix, e.g. fibrinogen (cell-matrix). In addition, integrins are active signaling receptors which recruit leukocytes to inflammatory sites and promote cell activation. Complete, functional integrin receptors consist of distinct combinations of integrin chains which are differentially expressed. Integrin alpha X (CD11c) assembles with Integrin beta-2 (CD18) into a receptor known as CR4 which can bind and induce signaling through ICAMs and VCAM-1 on endothelial cells and can also facilitate removal of iC3b bearing foreign cells.

The 3.9 antibody is widely used as a marker for CD11c expression on dendritic cells (DC), often in parallel with markers for CD11b, for identification of developmental stages and mature subsets of this cell type. CD11c is prominently expressed on tissue macrophages, and is also detected on activated neutrophils, granulocytes, some types of activated T cells and intestinal intraepithelial lymphocytes (IEL). The antibody is reported to be cross-reactive with Baboon, Chimpanzee, Cynomolgus and Rhesus CD11c.

### **violetFluor™ 450 Anti-Human CD11c (3.9) Antibody - References**

Robinson BA, Estep RD, Messaoudi I, Rogers KS, and Wong SW. J. Virol. 2012. 86:2197-2211. (Flow cytometry – rhesus macaque)

Campillo-Gimenez L, Laforge M, Fay M, Brussel A, et. al. 2010. J. Virol. 84(4):1838-1846. (Flow cytometry – African green monkey, rhesus macaque)

Sadhu C, Hendrickson L, Dick KO, Potter TG, and Staunton DE. 2008. J. Immunoassay Immunochem. 29(1):42-57. (in vitro blocking)

Arndt S, Melle C, Mondal K, Klein G, von Eggeling F, and Bosserhoff A-K. 2007. J. Leukoc. Biol. 82:1466-1472. (Immunoprecipitation)

McGreal EP, Ikewaki N, Akatsu H, Morgan BP, and Gasque P. 2002. 168:5222-5232. (Immunofluorescence microscopy – frozen tissue)