

## TECHNICAL DATA SHEET

# FITC Anti-Human CD11c (3.9)

Catalog Number: 35-0116

## PRODUCT INFORMATION

**Contents:** FITC Anti-Human CD11c (3.9)

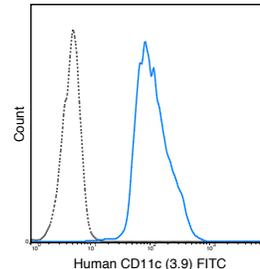
**Isotype:** Mouse IgG1, kappa

**Concentration:** 5ul (1 ug)/test

**Clone:** 3.9

**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



Human peripheral blood monocytes were stained with 5 uL (1 ug) FITC Anti-Human CD11c (35-0116) (solid line) or 1 ug FITC Mouse IgG1 isotype control.

## DESCRIPTION

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.

## PREPARATION & STORAGE

This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation. It is recommended to store the product undiluted at 4°C, and protected from prolonged exposure to light. Do not freeze.

## APPLICATION NOTES

This antibody preparation has been quality-tested for flow cytometry using mouse spleen cells, or an appropriate cell type (where indicated). The amount of antibody required for optimal staining of a cell sample should be determined empirically in your system.

## 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)

NOTE: Please choose the appropriate format for each application. Citations are provided as a convenience to you; please consult Materials and Methods sections for additional details about the use of any product in these publications.

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