

# Product Data Sheet

## LEAF™ Purified anti-human CD11c

**Catalog # / Size:** 337204 / 500 µg

**Clone:** Bu15

**Isotype:** Mouse IgG1, κ

**Workshop Number:** V S143

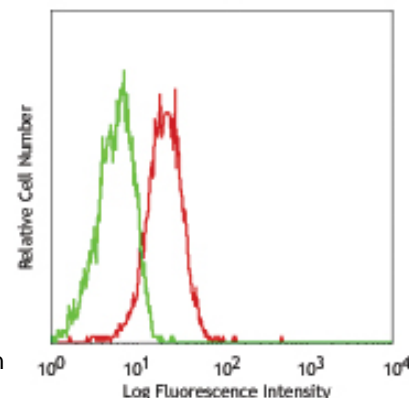
**Reactivity:** Human

**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 granulocytes stained with LEAF™ purified Bu15, followed by anti-mouse IgG FITC

## Applications:

**Applications:** FC - Quality tested  
 FA - Reported in the literature  
 CyTOF® - Validated

**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 ≤2.0 µg per million cells in 100 µl volume. It is recommended that the reagent be titrated for optimal performance for each application.

**Application Notes:** Clone Bu15 has a different binding epitope than clone 3.9. The binding of Bu15 with CD11c is divalent cation independent. Additional reported applications (for the relevant formats of this clone) include: inhibition of CD11c mediated adhesion and stimulation of chemokine production by monocytes.

**Application References:**

1. Sadhu C, *et al.* 2008. *J. Immunoass. Immunoch.* 29:42.
2. Rezzonico R, *et al.* 2001. *Blood* 97:2932.
3. Sadhu C, *et al.* 2007. *J. Leukoc. Biol.* 81:1395.
4. Yoshino N, *et al.* 2000. *Exp. Anim. (Tokyo)* 49:97. (FC)

**Description:** CD11c is a 145-150 kD type I transmembrane glycoprotein also known as integrin α<sub>x</sub> and CR4. CD11c non-covalently associates with integrin β<sub>2</sub> (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:**

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

**Related Products:**

<b>Product</b>	<b>Clone</b>	<b>Application</b>
LEAF™ Purified Mouse IgG1, κ Isotype Ctrl	MOPC-21	FC, ICFC, WB, IP, ICC, IF, FA
Cell Staining Buffer		FC, ICC, ICFC
RBC Lysis Buffer (10X)		FC, ICFC



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