Product Data Sheet

Brilliant Violet 650[™] anti-human CD11b

Catalog # / Size:	2106675 / 25 tests 2106680 / 100 tests	A A
Clone:	ICRF44	
Isotype:	Mouse IgG1, к	월 11
Reactivity:	Human	
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 650 [™] under optimal conditions. The solution is free of unconjugated Brilliant Violet 650 [™] and unconjugated antibody.	Relative Cell
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).	Log Fluorescence Intensity Human peripheral blood granulocytes were stained with
Workshop Number:	IV M047	CD11b (clone ICRF44) Brilliant Violet 650™ (filled histogram) or mouse IgG1, κ Brilliant Violet 650™ (open histogram).
Concentration :	Lot-specific	

Applications:

Applications: FI	low Cytometry
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Recommended Usage: Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is ≤5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

Brilliant Violet 650[™] excites at 405 nm and emits at 645 nm. The bandpass filter 660/20 nm is recommended for detection, although filter optimization may be required depending on other fluorophores used. **Be sure to verify that your cytometer configuration and software setup are appropriate for detecting this channel.** Refer to your instrument manual or manufacturer for support. Brilliant Violet 650[™] is a trademark of Sirigen Group Ltd.

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Application
 Notes: The ICRF44 antibody inhibits heterotypic adhesion of granulocytes in response to fMLP. Additional reported applications (for the relevant formats) include: immunohistochemical staining of acetone-fixed frozen tissue sections, immunofluorescence microscopy5, stimulation of monocytes3, blocking of heterotypic PMN aggregation⁸, and blocking of granulocyte activation¹². This clone was tested in-house and does not work on formalin fixed paraffin-embedded (FFPE) tissue.

The LEAF $^{\text{m}}$ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 301312).

Application References:	 Knapp W. 1989. Leucocyte Typing IV. Oxford University Press New York. Barclay N, <i>et al.</i> 1997. The Leucocyte Antigen Facts Book. Academic Press Inc. San Diego. Rezzonico R, <i>et al.</i> 2001. <i>Blood</i> 97:2932. (Stim) Marsik C, <i>et al.</i> 2003. <i>Shock</i> 20:493. (FC) David A, <i>et al.</i> 2003. <i>J. Leukoc. Biol.</i> 74:551. (IF) Charles N, <i>et al.</i> 2010. <i>Nat. Med.</i> 16:701. (FC) <u>PubMed</u> Thurlow LR, <i>et al.</i> 2010. <i>Infect. Immun.</i> 128:1128. (FC) <u>PubMed</u> Jadhav S, <i>et al.</i> 2001. <i>J. Immunol.</i> 167:5986. (Block) Yoshino N, <i>et al.</i> 2007. <i>Vet. Immunol.</i> Immunopathol. 119:21. (FC) Sprong T, <i>et al.</i> 2003. <i>Blood</i> 102:3702. (Block) Cash JL, <i>et al.</i> 2013. <i>EMBO Rep.</i> 14:999. (FC) <u>PubMed</u> Larsson K, <i>et al.</i> 2015. <i>PNAS.</i> PubMed
Description:	CD11b is a 165-170 kD type I transmembrane glycoprotein also known as α_M integrin, Mac-1, CR3, and C3biR. CD11b non-covalently associates with integrin β_2 (CD18) and is expressed on granulocytes, monocytes/macrophages, dendritic cells, NK cells, and subsets of T and B cells. CD11b/CD18 is critical for the transendothelial migration of monocytes and neutrophils. It is also involved in granulocyte adhesion, phagocytosis, and neutrophil activation. CD11b/CD18 interacts with ICAM-1 (CD54), ICAM-2 (CD102), ICAM-4, CD14, CD23, heparin, iC3b, fibrinogen, and factor X.
Antigen References:	1. Stewart M, et al. 1995. Curr. Opin. Cell Biol. 7:690.