

CD11b (activation epitope) Monoclonal Antibody (CBRM1/5), Super Bright™ 436, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Host/Isotype	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Super Bright™ 436, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	CBRM1/5
Conjugate	Super Bright™ 436
Excitation/Emission Max	413/431 nm
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with BSA
Contains	0.09% sodium azide
Storage conditions	4°C, store in dark, DO NOT FREEZE!
RRID	AB_2744770

Applications	Tested Dilution	Publications
Flow Cytometry (Flow)	5 µL (0.5 µg)/test	8 Publications

Product Specific Information

Description: The CBRM1/5 monoclonal antibody reacts with an activation-specific epitope of human Mac-1. CBRM1/5 binds a subset of Mac-1 molecules on neutrophils and monocytes after stimulation with chemoattractants or phorbol esters but does not recognize Mac-1 on resting myeloid cells. Through interactions with its ligands, Mac-1 participates in adhesive cell interactions. The epitope recognized by this mAb localizes to the I domain on the alpha chain of Mac-1 very close to the ligand binding site in a region that is widely exposed. CBRM1/5 blocks Mac-1 dependent adhesion to fibrinogen and ICAM-1 and inhibits chemoattractant-stimulated adhesion of eosinophils to the Intercellular Adhesion Molecule-1 (ICAM-1). It should be noted that low level activation may occur during processing of freshly drawn blood. Therefore the CBRM1.5 antibody may exhibit some binding to Mac-1 in these unstimulated samples. However, higher levels of Mac-1 expression are observed in activated samples when compared to unstimulated cells.

Applications Reported: This CBRM1/5 antibody has been reported for use in flow cytometric analysis.

Applications Tested: This CBRM1/5 antibody has been pre-titrated and tested by flow cytometric analysis of resting and activated normal human peripheral blood cells. This can be used at 5 µL (0.5 µg) per test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10⁵ to 10⁸ cells/test.

Super Bright 436 can be excited with the violet laser line (405 nm) and emits at 436 nm. We recommend using a 450/50 bandpass filter, or equivalent. Please make sure that your instrument is capable of detecting this fluorochrome.

When using two or more Super Bright dye-conjugated antibodies in a staining panel, it is recommended to use Super Bright

Complete Staining Buffer (Product # SB-4401) to minimize any non-specific polymer interactions. Please refer to the datasheet for Super Bright Staining Buffer for more information.

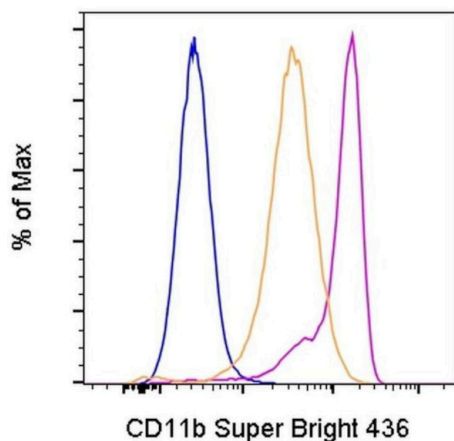
Excitation: 405 nm; Emission: 436 nm; Laser: Violet Laser

Super Bright Polymer Dyes are sold under license from Becton, Dickinson and Company.

Product Images For CD11b (activation epitope) Monoclonal Antibody (CBRM1/5), Super Bright™ 436, eBioscience™

CD11b (activation epitope) Antibody (62-0113-42) in Flow

Staining of 5-minute PMA/Ionomycin-stimulated (Cell Stimulation Cocktail (500X), Product # 00-4970-93) normal human peripheral blood cells with Mouse IgG1 Isotype Control, Super Bright 436 (Product # 62-4714-82) (blue histogram) or CD11b (activation epitope) Monoclonal Antibody, Super Bright 436 (purple histogram). The orange histogram depicts staining of unstimulated cells with the CD11b (activation epitope) Monoclonal Antibody, Super Bright 436. Cells in the granulocyte gate were used for analysis.



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Flow Cytometry (8)

Cell death & disease

USP7 inhibits the progression of nasopharyngeal carcinoma via promoting SPLUNC1-mediated M1 macrophage polarization through TRIM24.

Year
2023

"Published figure using CD11b (activation epitope) monoclonal antibody (Product # 62-0113-42) in Flow Cytometry"

Authors: Liu H,Tang L,Gong S,Xiao T,Yang H,Gu W,Wang H,Chen P

FASEB journal : official publication of the Federation of American Societies for Experimental Biology

Year
2022

Lipoxins modulate neutrophil oxidative burst, integrin expression and lymphatic transmigration differentially in human health and atherosclerosis.

"Published figure using CD11b (activation epitope) monoclonal antibody (Product # 62-0113-42) in Flow Cytometry"

Authors: Kraft JD,Blomgran R,Bergström I,Soták M,Clark M,Rani A,Rajan MR,Dalli J,Nyström S,Quiding-Järbrink M, Bromberg J,Skoog P,Börgeson E

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More applications with references on thermofisher.cn

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