

# CD11b (activation epitope) Monoclonal Antibody (CBRM1/5), FITC, eBioscience™

Product Details	
Size	100 Tests
Species Reactivity	Human
Published Species	Human
Host/Isotope	Mouse / IgG1, kappa
Recommended Isotype Control	Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), FITC, eBioscience™
Class	Monoclonal
Type	Antibody
Clone	CBRM1/5
Conjugate	FITC
Form	Liquid
Concentration	5 µL/Test
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2, with 0.1% gelatin, 0.2% BSA
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!
RRID	AB_2572437

Applications	Tested	Dilution	Published
Flow Cytometry (Flow)	✓	5 µL (1 µg)/test	16 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.

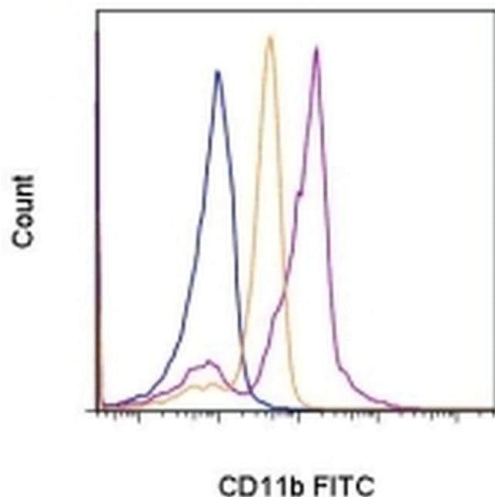
**Applications Reported:** The CBRM1/5 antibody has been reported for use in flow cytometric analysis.

**Applications Tested:** The 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 (1 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 10<sup>5</sup> to 10<sup>8</sup> cells/test.

Excitation: 488 nm; Emission: 520 nm; Laser: Blue Laser.

Filtration: 0.2 µm post-manufacturing filtered.

## Product Images For CD11b (activation epitope) Monoclonal Antibody (CBRM1/5), FITC, eBioscience™



### CD11b (activation epitope) Antibody (11-0113-42) in Flow

Staining of 5-minute PMA/Ionomycin-stimulated normal human peripheral blood cells with Mouse IgG1 K Isotype Control FITC (Product # 11-4714-42) (blue histogram) or Anti-Human CD11b (activation epitope) FITC (purple histogram). The orange histogram depicts staining of unstimulated cells with the Anti-Human CD11b (activation epitope) FITC antibody. Cells in the granulocyte gate were used for analysis.

## 16 References

### Flow Cytometry (16)

#### Oncotarget

#### TLR2 activation induces antioxidant defence in human monocyte-macrophage cell line models.

"11-0113 was used in Flow cytometry/Cell sorting to determine whether there are specific biochemical mechanisms responsible for an increase in oxidative stress resistance in differentiating macrophages."

Authors: Karwaciak I, Gorzkiewicz M, Bartosz G, Pulaski L

Species  
Human

Dilution  
Not Cited

Year  
2017

#### Scientific reports

#### Differential in vivo activation of monocyte subsets during low-grade inflammation through experimental endotoxemia in humans.

"11-0113 was used in Flow cytometry/Cell sorting to explore the effects of low-grade inflammation on the activation and distribution of different monocyte subsets."

Authors: Thaler B, Hohensinner PJ, Krychtiuk KA, Matzneller P, Koller L, Brekalo M, Maurer G, Huber K, Zeitlinger M, Jilma B, Wojta J, Speidl WS

Species  
Human

Dilution  
Not Cited

Year  
2016

[View more Flow references on thermofisher.com](#)

## More applications with references on thermofisher.com

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