

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

Product Details	
Size	50 µg
Species Reactivity	Human
Published Species	Human
Host/Isotype	Mouse / IgG1, kappa
Class	Monoclonal
Type	Antibody
Clone	CBRM1/5
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4° C
RRID	AB_467111

Applications	Tested Dilution	Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	1 Publication
Flow Cytometry (Flow)	1 µg/test	16 Publications
Immunoprecipitation (IP)	Assay-Dependent	-
Neutralization (Neu)	Assay-Dependent	2 Publications
Functional Assay (FN)	Assay-Dependent	2 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, and immunoprecipitation. CBRM1/5 has also been reported in blocking of CD11b function. (Please use Functional Grade purified CBRM1/5, cat. 16-0113, in functional assays.).

**Applications Tested:** The CBRM1/5 antibody has been tested by flow cytometric analysis of resting and activated normal human peripheral blood cells. This can be used at less than or equal to 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. It is recommended that the antibody be carefully titrated for optimal performance in the assay of

interest.

Purity: Greater than 90%, as determined by SDS-PAGE.

Aggregation: Less than 10%, as determined by HPLC.

Filtration: 0.2 µm post-manufacturing filtered.

## Immunohistochemistry (Paraffin) (1)

<p><b>Blood</b></p> <p><b>Neovascularization contributes to the development of hemophilic synovitis.</b></p> <p>"14-0113 was used in Immunohistochemistry to provide evidence of local and systemic angiogenic response in hemophilic subjects with recurrent hemarthroses."</p> <p>Authors: Acharya SS,Kaplan RN,Macdonald D,Fabiyi OT,DiMichele D,Lyden D</p>	<p><b>Year</b> 2011</p> <p><b>Species</b> Human</p>
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## Flow Cytometry (16)

<p><b>FASEB journal : official publication of the Federation of American Societies for Experimental Biology</b></p> <p><b>Lipoxins modulate neutrophil oxidative burst, integrin expression and lymphatic transmigration differentially in human health and atherosclerosis.</b></p> <p>"Published figure using CD11b (activation epitope) monoclonal antibody (Product # 14-0113-81) in Flow Cytometry"</p> <p>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</p>	<p><b>Year</b> 2022</p>
<p><b>Journal of clinical laboratory analysis</b></p> <p><b>Upregulation of CD3 and L-selectin in antigen-specific cytotoxic T lymphocytes by eliminating myeloid-derived suppressor cells with doxorubicin to improve killing efficacy of neuroblastoma cells in vitro.</b></p> <p>"Published figure using CD11b (activation epitope) monoclonal antibody (Product # 14-0113-81) in Flow Cytometry"</p> <p>Authors: Xu W,Li S,Li M,Zhou H,Yang X</p>	<p><b>Year</b> 2022</p>

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

## Neutralization (2)

<p><b>Arteriosclerosis, thrombosis, and vascular biology</b></p> <p><b>Fibrin and activated platelets cooperatively guide stem cells to a vascular injury and promote differentiation towards an endothelial cell phenotype.</b></p> <p>"14-0113 was used in Blocking experiments to assess the role of hemostatic components in the recruitment of CD34+ cells to sites of injury."</p> <p>Authors: de Boer HC,Verseyden C,Ulfman LH,Zwaginga JJ,Bot I,Biessen EA,Rabelink TJ,van Zonneveld AJ</p>	<p><b>Year</b> 2006</p> <p><b>Species</b> Human</p>
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## More applications with references on thermofisher.com

## FN (2)

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