

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

| Product Details | |
|-----------------------------|---|
| Size | 100 µg |
| Species Reactivity | Human |
| Published Species | Human |
| Host/Isotope | Mouse / IgG1, kappa |
| Recommended Isotype Control | Mouse IgG1 kappa Isotype Control (P3.6.2.8.1), Functional Grade, eBioscience™ |
| Class | Monoclonal |
| Type | Antibody |
| Clone | CBRM1/5 |
| Conjugate | Functional Grade |
| Form | Liquid |
| Concentration | 1 mg/mL |
| Purification | Affinity chromatography |
| Storage buffer | PBS, pH 7.2 |
| Contains | no preservative |
| Storage Conditions | 4° C |
| RRID | AB_468887 |

| Applications | Tested | Dilution | Published |
|-----------------------------|--------|-----------------|----------------|
| Flow Cytometry (Flow) | ✓ | 1 µg/test | 6 Publications |
| Inhibition Assays (IA) | - | | 1 Publication |
| Neutralization (Neu) | ✓ | Assay-Dependent | 3 Publications |
| Functional Assay (FN) | ✓ | Assay-Dependent | 1 Publication |
| Miscellaneous PubMed (MISC) | - | | 1 Publication |

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. CBRM1/5 has also been

reported in blocking of CD11b function.

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 10⁵ to 10⁸ cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Endotoxin: Less than 0.001 ng/ug antibody as determined by the LAL assay.

Storage and handling: Use in a sterile environment.

Filtration: 0.2 µm post-manufacturing filtered.

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

Endotoxin Level: Less than 0.001 ng/µg antibody, as determined by LAL assay.

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

12 References

Flow Cytometry (6)

Scientific reports

CD16 is indispensable for antibody-dependent cellular cytotoxicity by human monocytes.

"16-0113 was used in Flow cytometry/Cell sorting to show CD16+ monocytes are important effectors of ADCC, potentially significant for cellular therapies for cancer and infectious diseases."

Authors: Yeap WH,Wong KL,Shimasaki N,Teo EC,Quek JK,Yong HX,Diong CP,Bertoletti A,Linn YC,Wong SC

Species
Human

Dilution
Not Cited

Year
2016

Autophagy

MIR125B1 represses the degradation of the PML-RARA oncoprotein by an autophagy-lysosomal pathway in acute promyelocytic leukemia.

"Published figure using CD11b (activation epitope) monoclonal antibody (Product # 16-0113-82) in Flow Cytometry"

Authors: Zeng CW,Chen ZH,Zhang XJ,Han BW,Lin KY,Li XJ,Wei PP,Zhang H,Li Y,Chen YQ

Species
Human

Dilution
Not Cited

Year
2014

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

Inhibition Assays (1)

Cardiovascular research

5-Lipoxygenase plays a pivotal role in endothelial adhesion of monocytes via an increased expression of Mac-1.

"16-0113 was used in Inhibition experiments to investigate the mechanism responsible for 5-LO expression in monocytes and its role in monocyte adhesion to the vascular endothelium."

Authors: Lee SJ,Choi EK,Seo KW,Bae JU,Kim YH,Park SY,Oh SO,Kim CD

Species
Human

Dilution
Not Cited

Year
2013

Neutralization (3)

Cardiovascular research

5-Lipoxygenase plays a pivotal role in endothelial adhesion of monocytes via an increased expression of Mac-1.

"16-0113 was used in Inhibition experiments to investigate the mechanism responsible for 5-LO expression in monocytes and its role in monocyte adhesion to the vascular endothelium."

Authors: Lee SJ,Choi EK,Seo KW,Bae JU,Kim YH,Park SY,Oh SO,Kim CD

Species
Human

Dilution
Not Cited

Year
2013

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

More applications with references on thermofisher.com

FN (1) **MISC (1)**

For Research Use Only. Not for use in diagnostic procedures. Not for resale without express authorization. Products are warranted to operate or perform substantially in conformance with published Product specifications in effect at the time of sale, as set forth in the Production documentation, specifications and/or accompanying package inserts ("Documentation"). No claim of suitability for use in applications regulated by FDA is made. The warranty provided herein is valid only when used by properly trained individuals. Unless otherwise stated in the Documentation, this warranty is limited to one year from date of shipment when the Product is subjected to normal, proper and intended usage. This warranty does not extend to anyone other than the Buyer. Any model or sample furnished to Buyer is merely illustrative of the general type and quality of goods and does not represent that any Product will conform to such model or sample. NO OTHER WARRANTIES, EXPRESS OR IMPLIED, ARE GRANTED INCLUDING WITHOUT LIMITATION, IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR NON INFRINGEMENT. BUYER'S EXCLUSIVE REMEDY FOR NON-CONFORMING PRODUCTS DURING THE WARRANTY PERIOD IS LIMITED TO REPAIR, REPLACEMENT OF OR REFUND FOR THE NON-CONFORMING PRODUCT(S) AT SELLER'S SOLE OPTION. THERE IS NO OBLIGATION TO REPAIR, REPLACE OR REFUND FOR PRODUCTS AS THE RESULT OF (I) ACCIDENT, DISASTER OR EVENT OF FORCE MAJEURE, (II) MISUSE, FAULT OR NEGLIGENCE OF OR BY BUYER, (III) USE OF THE PRODUCTS IN A MANNER FOR WHICH THEY WERE NOT DESIGNED, OR (IV) IMPROPER STORAGE AND HANDLING OF THE PRODUCTS. Unless otherwise expressly stated on the Product or in the documentation accompanying the Product, the Product is intended for research only and is not to be used for any other purpose, including without limitation, unauthorized commercial uses, in vitro diagnostic uses, ex vivo or in vivo therapeutic uses, or any type of consumption by or application to human or animals.