

Product datasheet

Anti-CD11b antibody [M1/70] ab8878

Recombinant

★★★★☆ [17 Abreviews](#) [138 References](#) [4 Images](#)

Overview

Product name	Anti-CD11b antibody [M1/70]
Description	Rat monoclonal [M1/70] to CD11b
Host species	Rat
Tested applications	Suitable for: ICC/IF, Flow Cyt Unsuitable for: IHC-P
Species reactivity	Reacts with: Mouse, Human
Immunogen	Tissue, cells or virus. This information is proprietary to Abcam and/or its suppliers.
Positive control	Flow Cytometry: RAW 264.7 cells, Human peripheral blood mononuclear cell (PBMC), Mouse peripheral blood mononuclear cell (PBMC) IF/ICC: RAW 264.7 cells
General notes	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
Purity	Protein A purified
Clonality	Monoclonal
Clone number	M1/70

Myeloma	NS1
Isotype	IgG2b
Light chain type	unknown

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab8878 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★★ (4)	1/50.
Flow Cyt	★★★★★ (2)	1/1000 - 1/10000. ab18536 - Rat monoclonal IgG2b, is suitable for use as an isotype control with this antibody.

Application notes Is unsuitable for IHC-P.

Target

Function Integrin alpha-M/beta-2 is implicated in various adhesive interactions of monocytes, macrophages and granulocytes as well as in mediating the uptake of complement-coated particles. It is identical with CR-3, the receptor for the iC3b fragment of the third complement component. It probably recognizes the R-G-D peptide in C3b. Integrin alpha-M/beta-2 is also a receptor for fibrinogen, factor X and ICAM1. It recognizes P1 and P2 peptides of fibrinogen gamma chain.

Tissue specificity Predominantly expressed in monocytes and granulocytes.

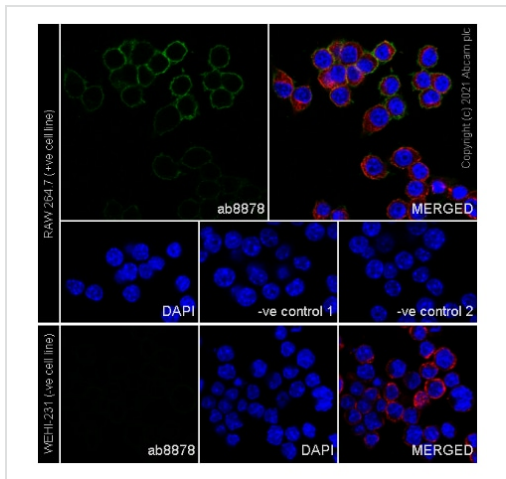
Involvement in disease Genetic variations in ITGAM has been associated with susceptibility to systemic lupus erythematosus type 6 (SLEB6) [MIM:609939]. Systemic lupus erythematosus (SLE) is a chronic, inflammatory and often febrile multisystemic disorder of connective tissue. It affects principally the skin, joints, kidneys and serosal membranes. It is thought to represent a failure of the regulatory mechanisms of the autoimmune system.

Sequence similarities Belongs to the integrin alpha chain family.
Contains 7 FG-GAP repeats.
Contains 1 VWFA domain.

Domain The integrin I-domain (insert) is a VWFA domain. Integrins with I-domains do not undergo protease cleavage.

Cellular localization Membrane.

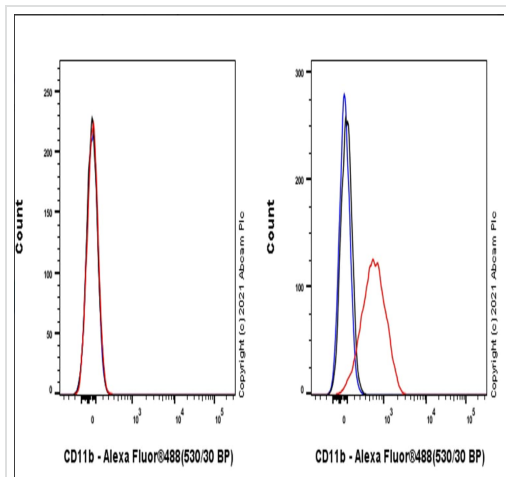
Images



Immunocytochemistry/ Immunofluorescence - Anti-CD11b antibody [M1/70] (ab8878)

Confocal image showing membranous staining in RAW 264.7 cells. RAW 264.7, WEHI-231 and THP-1 cells were fixed in 4% PFA and permeabilized with 0.1% Triton X-100. Primary antibody, ab8878 at 1:50 was incubated overnight at 4° C, followed by AlexaFluor® 488-conjugated Goat anti-Rat secondary antibody (**ab150157**) at 1/1000 dilution at RT for 45 min. **ab179513** Anti-beta Tubulin, used as a counterstain at 1/200 dilution, was co-incubated with ab8878 overnight at 4° C, followed by Alexa Fluor® 594 Goat Anti-Rabbit secondary (**ab150080**) at 1/1000 dilution at RT for 45 min. Nucleus were visualized using DAPI.

Negative control: WEHI-231 (PMID: 2457584)

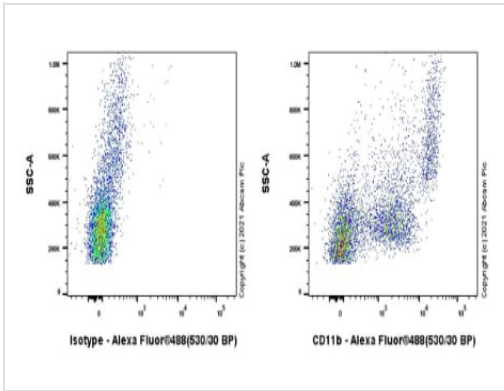


Flow Cytometry - Anti-CD11b antibody [M1/70] (ab8878)

Flow Cytometry analysis of WEHI-231 (Mouse B cell lymphoma B lymphocyte, Left) / RAW 264.7 (Mouse Abelson murine leukemia virus-induced tumor macrophage, Right) cells stained for CD11b using AB8878 at a 1/1000 dilution (0.1 µg) (Red) compared to Rat monoclonal IgG - Isotype Control (Black) and cells without incubation with primary antibody and secondary antibody (Blue). Goat F(ab)2 Anti-Rat IgG Fc (Alexa Fluor® 488, **ab150161**) at 1/2000 dilution was used as the secondary antibody.

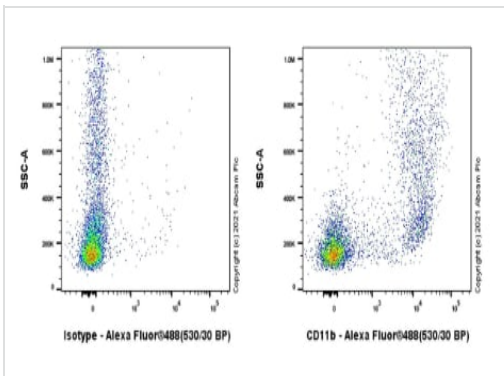
Negative control: WEHI-231.(PMID: 2457584)

Gated on viable cells.



Flow Cytometry - Anti-CD11b antibody [M1/70]
(ab8878)

Flow Cytometry analysis of Human peripheral blood mononuclear cell (PBMC) cells labelling CD11b with AB8878 at a 1/10,000 dilution (0.01 µg) (right) compared to Rat monoclonal IgG - Isotype Control (right). Goat F(ab)2 Anti-Rat IgG Fc (Alexa Fluor® 488, **ab150161**) at 1/2000 dilution was used as the secondary antibody. Gated on viable cells.



Flow Cytometry - Anti-CD11b antibody [M1/70]
(ab8878)

Flow Cytometry analysis of Mouse peripheral blood mononuclear cell (PBMC) cells labelling CD11b with AB8878 at a 1/10,000 dilution (0.01 µg) (right) compared to Rat monoclonal IgG - Isotype Control (right). Goat F(ab)2 Anti-Rat IgG Fc (Alexa Fluor® 488, **ab150161**) at 1/2000 dilution was used as the secondary antibody. Gated on viable cells.

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