

## Product datasheet

# Anti-CD11b antibody [M1/70] ab8878

Recombinant

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

### Overview

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

### Properties

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

<b>Myeloma</b>	NS1
<b>Isotype</b>	IgG2b
<b>Light chain type</b>	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. <b>ab18536</b> - 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.

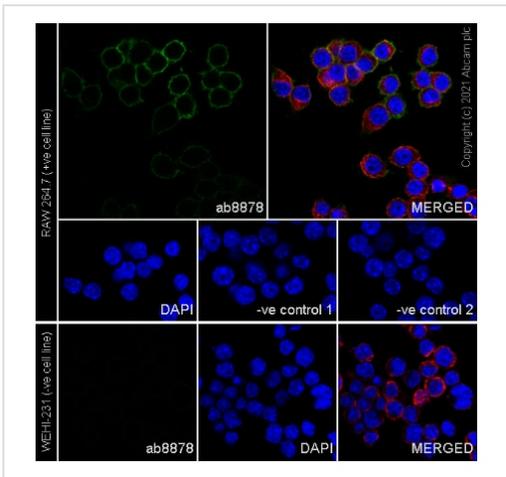
**Involvement in disease** Genetic variations in ITGAM has been associated with susceptibility to systemic lupus erythematosus type 6 (SLEB6) [MIM:609939]. Systemic lupus erythematosus (SLE) is a chronic, inflammatory and often febrile multisystemic disorder of connective tissue. It affects principally 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.

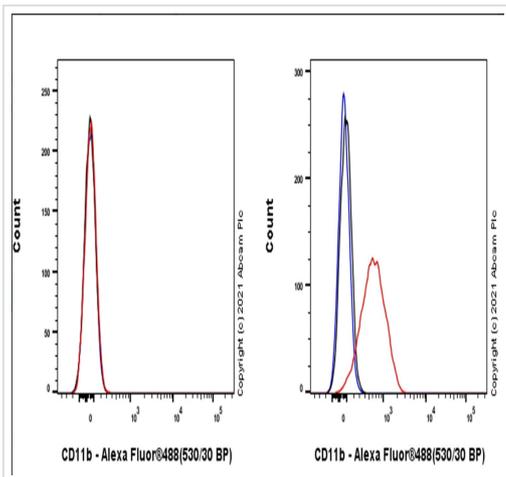
## Images



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)

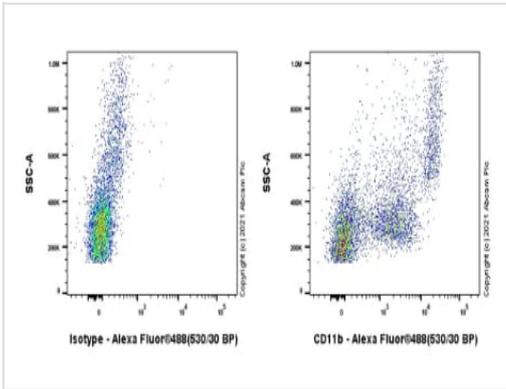


Flow Cytometry - Anti-CD11b antibody [M1/70] (ab8878)

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.

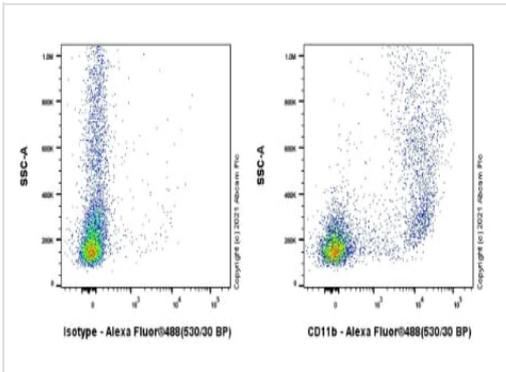
Negative control: WEHI-231.(PMID: 2457584)

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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