

## Product datasheet

# Anti-CD11b antibody [EPR1344] ab133357

Recombinant RabMAB

★★★★☆ 23 Abreviews 38 References 13 Images

### Overview

<b>Product name</b>	Anti-CD11b antibody [EPR1344]
<b>Description</b>	Rabbit monoclonal [EPR1344] to CD11b
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human, Pig, Rhesus monkey
<b>Immunogen</b>	Synthetic peptide within Human CD11b aa 1-100. The exact sequence is proprietary.
<b>Positive control</b>	THP1 cell lysate treated with TPA, and TF1 cell lysate; Human tonsil and spleen tissues; Rat spleen lysate.
<b>General notes</b>	<p>Our RabMAB<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMab<sup>®</sup> patents</a></p> <p><b>We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.</b></p> <p>This product is a recombinant rabbit monoclonal antibody.</p>

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR1344
<b>Isotype</b>	IgG

## Applications

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Our [Abpromise guarantee](#) covers the use of **ab133357** 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
WB	★★★★☆	1/1000. Predicted molecular weight: 127 kDa.
IHC-P	★★★★☆	1/4000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. <b>For unpurified, use 1/100 - 1/250.</b>  Please optimize IHC protocol when testing mouse and rat tissues. It is easy to show background staining in liver tissue.

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## Target

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### 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.

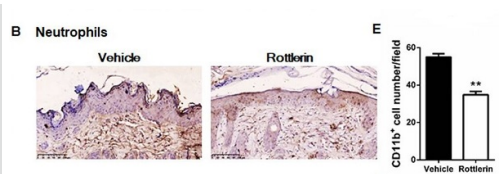
### Cellular localization

Membrane.

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## Images

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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11b antibody [EPR1344] (ab133357)

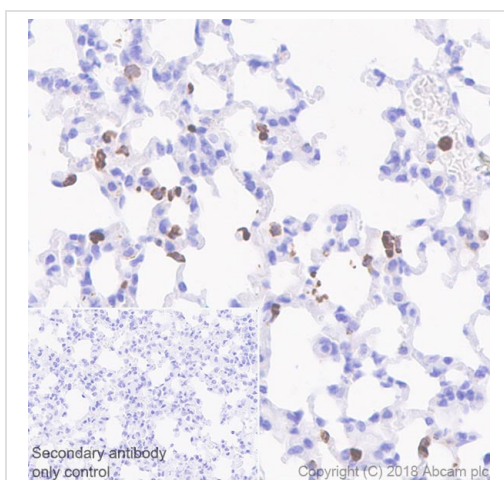
Min, Met et al PLoS One. 2017 Dec 22;12(12):e0190051. doi: 10.1371/journal.pone.0190051. eCollection 2017

### Rottlerin decreases the number of effector cells that mainly infiltrate the skin in IMQ-treated mice

Immunohistochemical detection of immune cell-related markers was performed on paraffin-embedded sections obtained from the back skin of IMQ-induced mice treated with vehicle or rottlerin.

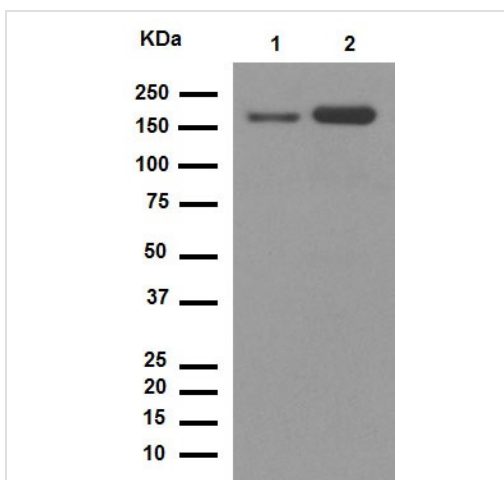
Representatives IHC images of CD11b (B) on the skin of the vehicle or rottlerin-treated mice. Scale bar = 100µm.

Quantification analysis of IHC staining for CD11b(E) on the skin of the vehicle and rottlerin treated mice. Two independent researchers counted the number of positive staining cells were per high-power field (HPF). The data are representative of three experiments (n = 5 mice per group). \*\*  $P < 0.01$  vs. vehicle.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11b antibody [EPR1344] (ab133357)

Ab133357 staining CD11b in paraffin embedded Mouse lung tissue sections by Immunohistochemistry. Heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0). Samples were incubated with primary antibody at 1/4000 dilution (0.031 µg/ml). A ready to use Goat Anti-rabbit IgG H&L (HRP) was used as the secondary antibody. Hematoxylin was used as a counterstain. Positive staining on stromal cells of mouse lung.



Western blot - Anti-CD11b antibody [EPR1344] (ab133357)

**All lanes** : Anti-CD11b antibody [EPR1344] (ab133357) at 1/1000 dilution (purified)

**Lane 1** : TF-1 cell lysate

**Lane 2** : TPA treated THP-1 cell lysate

Lysates/proteins at 20 µg per lane.

**Secondary**

**All lanes** : HRP goat anti-rabbit (H+L) at 1/1000 dilution

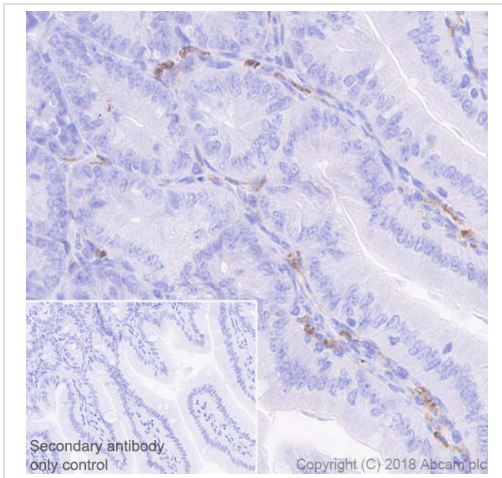
**Predicted band size:** 127 kDa

**Observed band size:** 170 kDa

[why is the actual band size different from the predicted?](#)

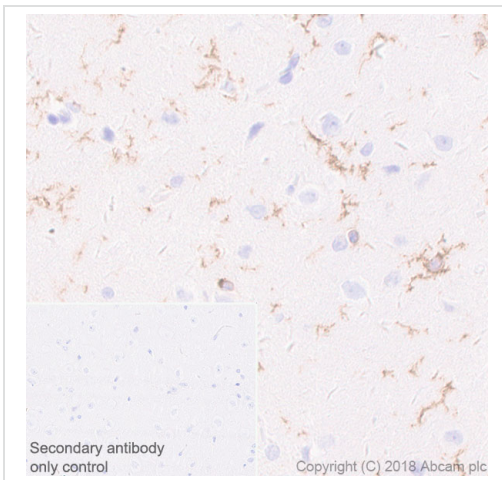
Blocking buffer: 5% NFDM/TBST

Dilution buffer: 5% NFDM/TBST



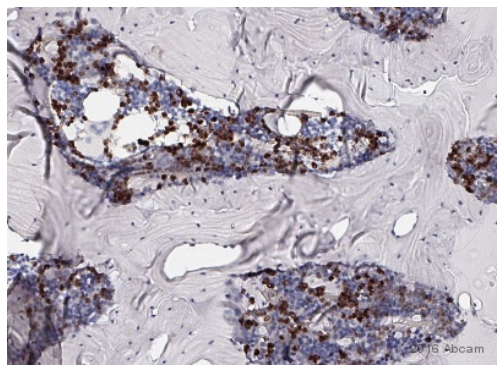
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11b antibody [EPR1344] (ab133357)

Ab133357 staining CD11b in paraffin embedded Mouse colon tissue sections by Immunohistochemistry. Heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0). Samples were incubated with primary antibody at 1/4000 dilution (0.031 µg/ml). A ready to use Goat Anti-rabbit IgG H&L (HRP) was used as the secondary antibody. Hematoxylin was used as a counterstain. Positive staining on stromal cells of mouse colon.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11b antibody [EPR1344] (ab133357)

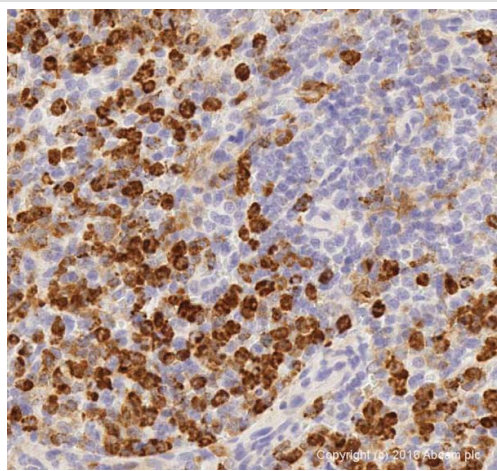
Ab133357 staining CD11b in paraffin embedded Rat cerebrum tissue sections by Immunohistochemistry. Heat mediated antigen retrieval was performed using [ab93684](#) (Tris/EDTA buffer, pH 9.0). Samples were incubated with primary antibody at 1/4000 dilution (0.29 µg/ml). A ready to use Goat Anti-rabbit IgG H&L (HRP) was used as the secondary antibody. Hematoxylin was used as a counterstain. Positive staining on gliocytes of rat cerebrum [PMID: 20483006].



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11b antibody [EPR1344] (ab133357)

Formaldehyde-fixed, paraffin-embedded rat bone marrow tissue stained for CD11b using ab133357 at 1/5000 in immunohistochemical analysis.

Heat mediated antigen retrieval with EDTA buffer pH 9 was performed before commencing with staining protocol. 1% casein was used as blocking agent.

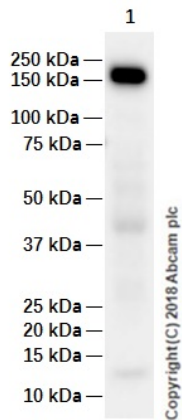


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11b antibody [EPR1344] (ab133357)

IHC image of CD11b staining in a formalin fixed, paraffin embedded human normal spleen tissue section\*, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab133357 at 1/4000 dilution, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

\*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre



Western blot - Anti-CD11b antibody [EPR1344]  
(ab133357)

Anti-CD11b antibody [EPR1344] (ab133357) at 1/1000 dilution +  
Rat spleen tissue lysate at 20 µg

### Secondary

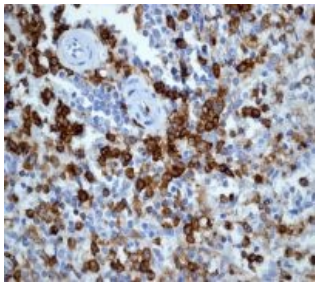
Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

**Predicted band size:** 127 kDa

**Observed band size:** 170 kDa [why is the actual band size different from the predicted?](#)

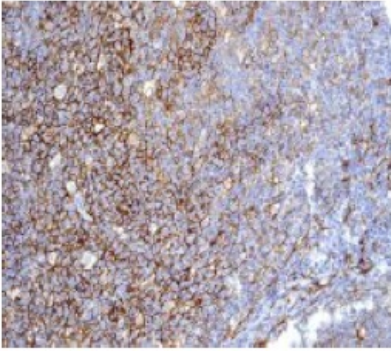
**Exposure time:** 8 seconds

Blocking and diluting buffer: 5% NFDm/TBST



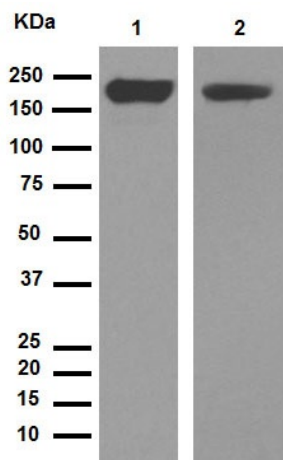
Immunohistochemistry (Formalin/PFA-fixed paraffin-  
embedded sections) - Anti-CD11b antibody  
[EPR1344] (ab133357)

Immunohistochemical analysis of CD11b in paraffin embedded  
human spleen tissue, using unpurified ab133357 at a dilution of  
1/100.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11b antibody [EPR1344] (ab133357)

Immunohistochemical analysis of CD11b in paraffin embedded human tonsil tissue, using unpurified ab133357 at a dilution of 1/100.



Western blot - Anti-CD11b antibody [EPR1344] (ab133357)

**All lanes** : purified at 1/10000 dilution

**Lane 1** : RAW264.7 cell lysate

**Lane 2** : Mouse spleen tissue lysate

Lysates/proteins at 20 µg per lane.

#### Secondary

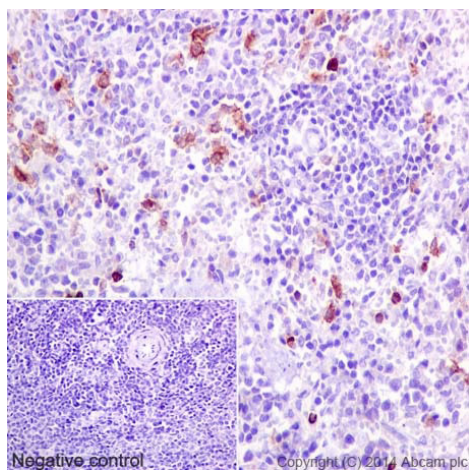
**All lanes** : HRP goat anti-rabbit (H+L) at 1/1000 dilution

**Predicted band size:** 127 kDa

**Observed band size:** 170 kDa [why is the actual band size different from the predicted?](#)

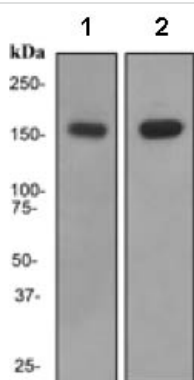
Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



Immunohistochemical staining of paraffin embedded human spleen with purified ab133357 at a working dilution of 1 in 4000. The secondary antibody used is a HRP goat anti-rabbit ([ab97051](#)). The sample is counter-stained with hematoxylin. Antigen retrieval was performed using Tris-EDTA buffer, pH 9.0. PBS was used instead of the primary antibody as the negative control, and is shown in the inset.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11b antibody [EPR1344] (ab133357)



Western blot - Anti-CD11b antibody [EPR1344] (ab133357)

**All lanes :** Anti-CD11b antibody [EPR1344] (ab133357) at 1/1000 dilution (unpurified)

**Lane 1 :** THP1 cell lysate treated with TPA

**Lane 2 :** TF1 cell lysate

Lysates/proteins at 10 µg per lane.

**Secondary**

**All lanes :** HRP labelled goat anti-rabbit at 1/2000 dilution

**Predicted band size:** 127 kDa

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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