

## Product datasheet

# Anti-CD11b antibody [EPR1344] ab133357

Recombinant **RabMAb**

★★★★☆ 33 Abreviews 193 References 15 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 <b>Predicted to work with:</b> Pig, Rhesus monkey
<b>Immunogen</b>	Synthetic peptide within Human CD11b aa 1-100. The exact sequence is proprietary. Database link: <a href="#">P11215</a>
<b>Positive control</b>	WB: THP1 cell lysate treated with TPA, and TF1 cell lysate; Rat spleen lysate IHC-P: Human tonsil and spleen tissues; Rat cerebrum and bone marrow tissue; Mouse lung and colon tissue.
<b>General notes</b>	<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> <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>

### 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: 7.2 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

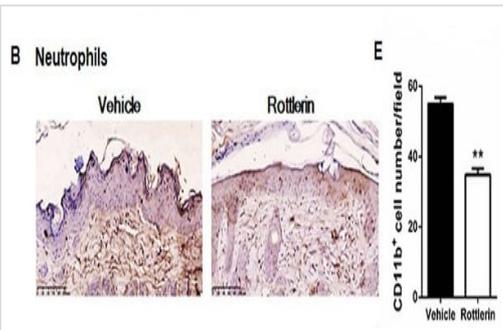
**The Abpromise guarantee** Our [Abpromise guarantee](#) covers the use of ab133357 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (4)	1/1000. Predicted molecular weight: 127 kDa.
IHC-P	★★★★★ (16)	1/4000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. Please optimize IHC protocol when testing mouse and rat tissues. It is easy to show background staining in liver tissue.

## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	Predominantly expressed in monocytes and granulocytes.
<b>Involvement in disease</b>	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.
<b>Sequence similarities</b>	Belongs to the integrin alpha chain family. Contains 7 FG-GAP repeats. Contains 1 VWFA domain.
<b>Domain</b>	The integrin I-domain (insert) is a VWFA domain. Integrins with I-domains do not undergo protease cleavage.
<b>Cellular localization</b>	Membrane.

## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11b antibody

[EPR1344] (ab133357)

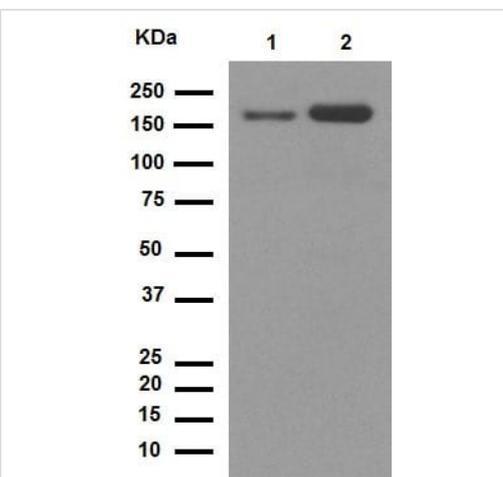
Min, Met et al PLoS One. 2017 Dec 22;12(12):e0190051. doi: 10.1371/journal.pone.0190051. eCollection 2017  
 Reproduced under the Creative Commons license  
<http://creativecommons.org/licenses/by/4.0/>

### 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.



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

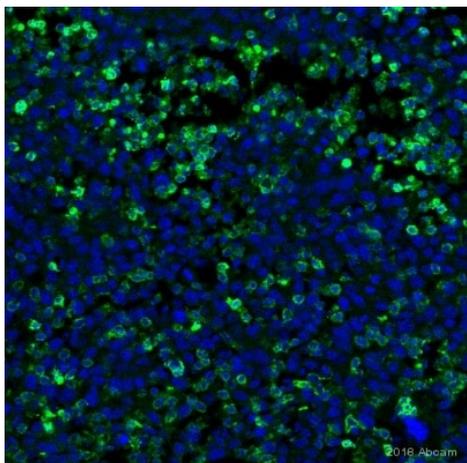
**All lanes :** HRP goat anti-rabbit (H+L) at 1/1000 dilution

**Predicted band size:** 127 kDa

**Observed band size:** 170 kDa

Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11b antibody

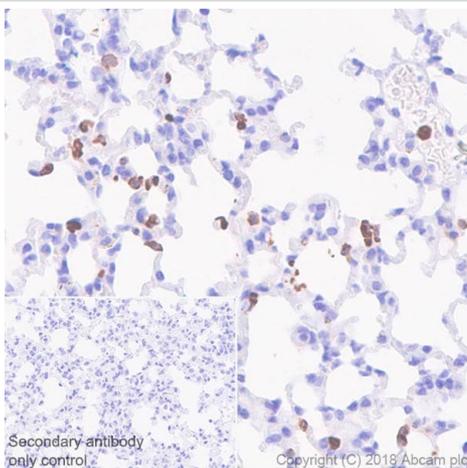
[EPR1344] (ab133357)

This image is courtesy of an abreview from Anugraha Rajagopalan

Formalin-fixed, 0.2% Triton-X permeabilized Mouse tissue sections (Eo771 breast cancer) was stained for CD11b using ab133357 (Green) at 1/1000 dilution in immunohistochemical analysis. The secondary antibody was a Alexa Fluor® 488 Goat anti-Rabbit IgG (H+L) at 1/1000 dilution.

BSA as blocking agent for 1 hour(s) and 0 minute(s) ·

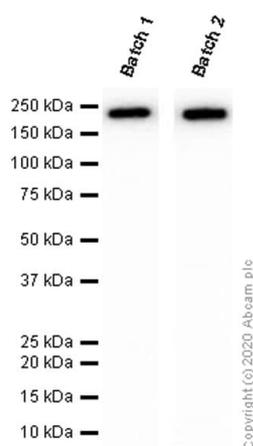
Concentration: 4% · Temperature: 25°C



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11b antibody

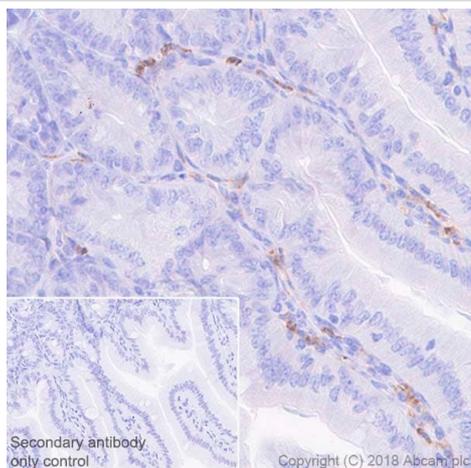
[EPR1344] (ab133357)

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.



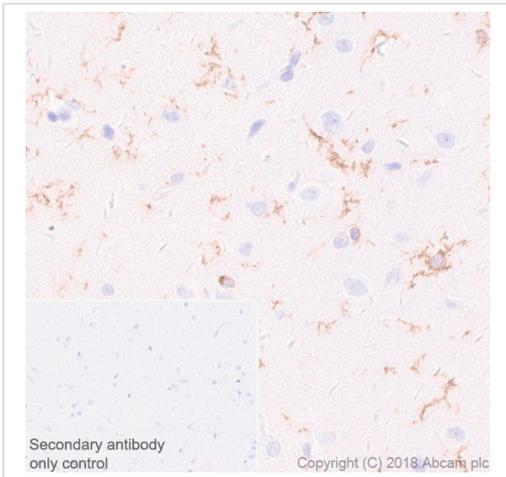
Western blot - Anti-CD11b antibody [EPR1344]  
(ab133357)

Different batches of ab133357 were tested on Rat spleen lysate at 0.1 µg/ml. 15 µg of lysate was loaded in each lane. Bands observed at 170 kDa.



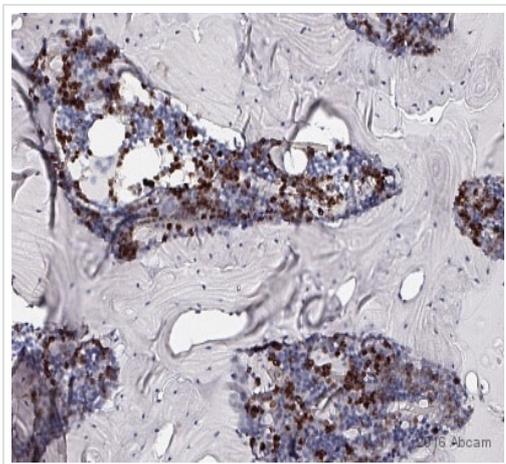
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11b antibody [EPR1344] (ab133357)

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.



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].

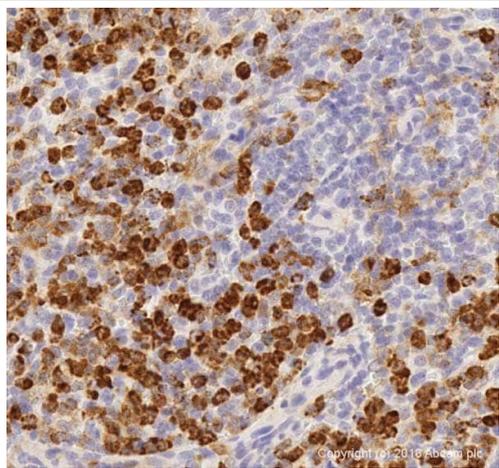
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11b antibody [EPR1344] (ab133357)



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)

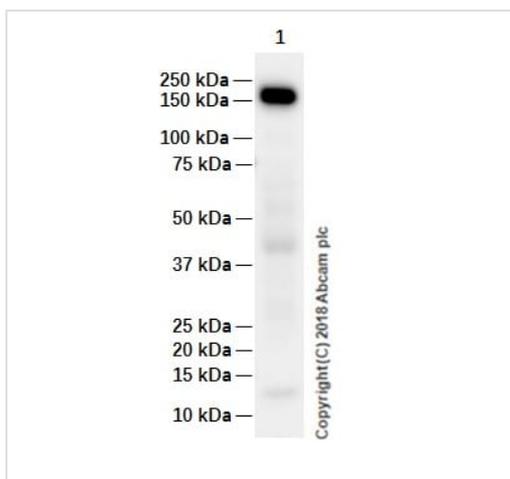


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11b antibody [EPR1344] (ab133357)

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

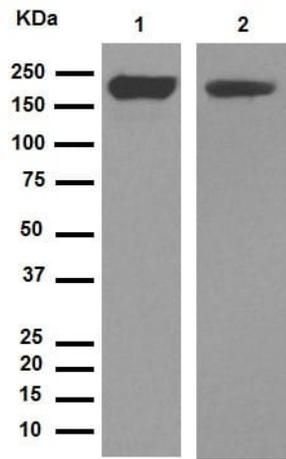
Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

**Predicted band size:** 127 kDa

**Observed band size:** 170 kDa

**Exposure time:** 8 seconds

Blocking and diluting buffer: 5% NFD/MTBST



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**

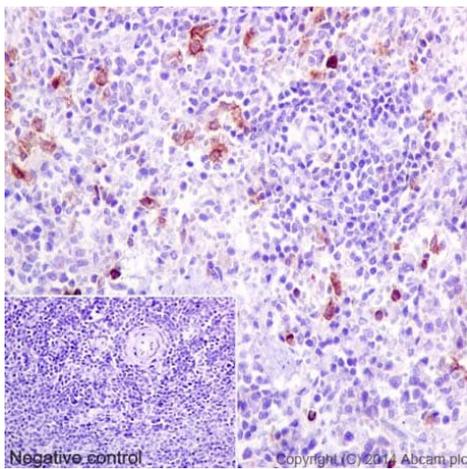
**All lanes** : HRP goat anti-rabbit (H+L) at 1/1000 dilution

**Predicted band size:** 127 kDa

**Observed band size:** 170 kDa

Blocking buffer: 5% NFDm/TBST

Dilution buffer: 5% NFDm/TBST



Immunohistochemical staining of paraffin embedded human spleen with purified ab133357 at a 1/4000 dilution. The secondary antibody used is a HRP goat anti-rabbit ([ab97051](#)). The sample is counterstained 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)

**Tissue Microarray (TMA) data for ab133357**

**Mouse normal tissue samples**

Mouse cardiac muscle	x (immune cells ✓)	Mouse pancreas	x
Mouse cerebrum	x	Mouse skeletal muscle	x
Mouse colon	x (immune cells ✓)	Mouse skin	x (immune cells ✓)
Mouse kidney	x	Mouse spleen	✓
Mouse liver	x	Mouse stomach	x (immune cells ✓)
Mouse lung	x (immune cells ✓)	Mouse testis	x

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

Tissue Microarrays stained for "Anti-CD11b antibody [EPR1344]" using "ab133357" in immunohistochemical analysis. This table provides a detailed overview of positive (tick mark) and negative (cross mark) staining per sample type tested. The sections were pre-treated using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) for 20 minutes. The sections were incubated with ab133357 for 30 mins at room temperature followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

**Tissue Microarray (TMA) data for ab133357**

**Human normal tissue samples**

**Human malignant tissue samples**

Human cardiac muscle	x	Human placenta	x (immune cells ✓)	Clear cell carcinoma of human kidney	x (immune cells ✓)	Human glioma	x
Human cerebrum	x	Human skeletal muscle	x	Human bladder cancer	x	Human hepatocellular carcinoma	x (immune cells ✓)
Human colon	x (immune cells ✓)	Human skin	x (immune cells ✓)	Human breast carcinoma	x	Human lung carcinoma	x (immune cells ✓)
Human endometrium	x (immune cells ✓)	Human spleen	✓	Human cervical carcinoma	x (immune cells ✓)	Human ovarian carcinoma	x (immune cells ✓)
Human kidney	x (immune cells ✓)	Human stomach	x (immune cells ✓)	Human colon carcinoma	x (immune cells ✓)	Human pancreatic carcinoma	x (immune cells ✓)
Human liver	x (immune cells ✓)	Human testis	x	Human endometrial carcinoma	x (immune cells ✓)	Human prostatic hyperplasia	x
Human lung	x (immune cells ✓)	Human thyroid	x	Human gastric adenocarcinoma	x (immune cells ✓)	Human thyroid carcinoma	x (immune cells ✓)
Human mammary gland	x (immune cells ✓)	Human tonsil	✓				
Human pancreas	x						

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

Tissue Microarrays stained for "Anti-CD11b antibody [EPR1344]" using "ab133357" in immunohistochemical analysis. This table provides a detailed overview of positive (tick mark) and negative (cross mark) staining per sample type tested. The sections were pre-treated using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0) for 20 minutes. The sections were incubated with ab133357 for 30 mins at room temperature followed by a ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). The immunostaining was performed on a Leica Biosystems BOND® RX instrument.

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-CD11b antibody [EPR1344] (ab133357)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

### Our Abpromise to you: Quality guaranteed and expert technical support

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### Terms and conditions

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors