

Product datasheet

Anti-CD11b antibody [EPR19387] - BSA and Azide free ab232427

Recombinant RabMAb

★★★★★ [1 Abreviews](#) [1 References](#) [4 Images](#)

Overview

| | |
|----------------------------|--|
| Product name | Anti-CD11b antibody [EPR19387] - BSA and Azide free |
| Description | Rabbit monoclonal [EPR19387] to CD11b - BSA and Azide free |
| Host species | Rabbit |
| Tested applications | Suitable for: ICC/IF, IP, Flow Cyt, WB |
| Species reactivity | Reacts with: Mouse, Human |
| Immunogen | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers. |
| Positive control | ICC/IF: RAW 264.7 cells. |
| General notes | <p>ab232427 is the carrier-free version of ab184308.</p> <p>Our carrier-free antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar[®] Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar[®] is a trademark of Fluidigm Canada Inc.</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> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> |

Properties

| | |
|-----------------------------|---|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C. Do Not Freeze. |
| Storage buffer | pH: 7.2 Constituent: PBS |
| Carrier free | Yes |
| Purity | Protein A purified |
| Clonality | Monoclonal |
| Clone number | EPR19387 |
| Isotype | IgG |

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab232427 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 | | Use at an assay dependent concentration. |
| IP | | Use at an assay dependent concentration. |
| Flow Cyt | | Use at an assay dependent concentration. |
| WB | | Use at an assay dependent concentration. Detects a band of approximately 170 kDa (predicted molecular weight: 127 kDa). |

Target

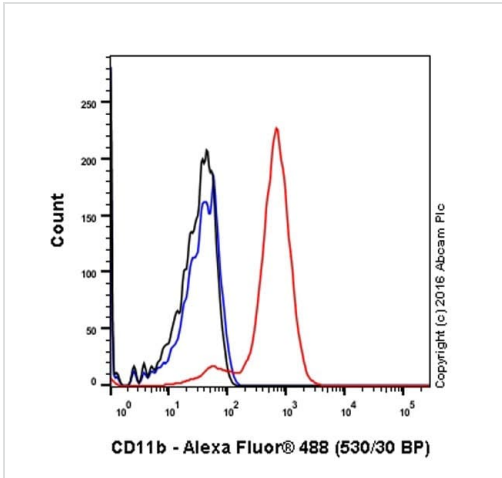
| | |
|-------------------------------|---|
| Function | Integrin alpha-M/beta-2 is implicated in various adhesive interactions of monocytes, macrophages and granulocytes as well as in mediating the uptake of complement-coated particles. It is identical with CR-3, the receptor for the iC3b fragment of 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.

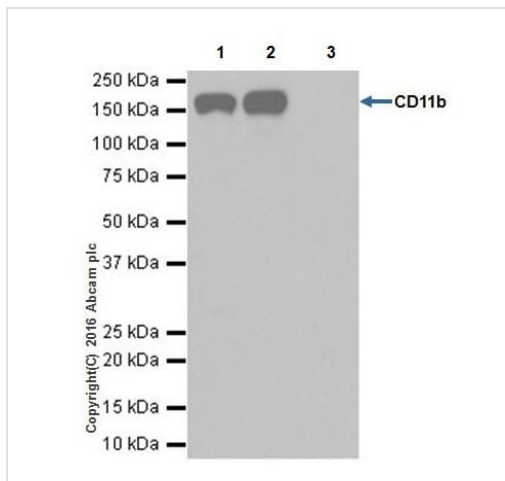
Cellular localization

Membrane.

Images



Flow Cytometry - Anti-CD11b antibody [EPR19387] - BSA and Azide free (ab232427)



Immunoprecipitation - Anti-CD11b antibody [EPR19387] - BSA and Azide free (ab232427)

Flow cytometric analysis of RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) cells labeling CD11b with **ab184308** at 1/70 dilution (red) compared with a Rabbit IgG, monoclonal [EPR25A] -Isotype control (**ab172730**) (black) and an unlabelled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat anti Rabbit IgG (Alexa Fluor® 488) at 1/2000 dilution was used as the secondary antibody.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab184308**).

CD11b was immunoprecipitated from 0.35 mg of RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) whole cell lysate with **ab184308** at 1/40 dilution. Western blot was performed from the immunoprecipitate using **ab184308** at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

Lane 1: RAW 264.7 whole cell lysate, 10µg (Input).

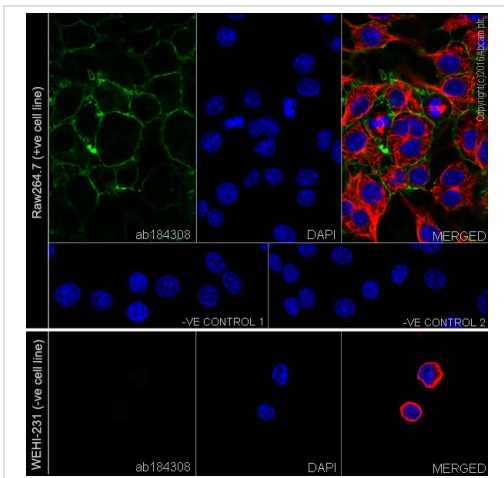
Lane 2: **ab184308** IP in RAW 264.7 whole cell lysate.

Lane 3: Rabbit IgG, monoclonal [EPR25A]- Isotype Control (**ab172730**) instead of **ab184308** in RAW 264.7 whole cell lysate.

Blocking and dilution buffer and concentration: 5% NFDm/TBST.

Exposure time: 8 seconds.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab184308**).



Immunocytochemistry/ Immunofluorescence - Anti-CD11b antibody [EPR19387] - BSA and Azide free (ab232427)

Immunofluorescent analysis of 100% methanol-fixed RAW 264.7 (Mouse macrophage cell line transformed with Abelson murine leukemia virus) and WEHI-231 (Mouse B cell lymphoma cell line) cells labeling CD11b with **ab184308** at 1/500 dilution, followed by Goat Anti-Rabbit IgG (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1,000 dilution (green).

Confocal image showing membrane staining on RAW 264.7 cells and no staining on WEHI-231 cells (negative cell line).

The nuclear counter stain is DAPI (blue).

Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Loading Control (**ab7291**) at 1/1,000 dilution and Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed (**ab150120**) at 1/1,000 dilution (red).





The negative controls are as follows:

-ve control 1: **ab184308** at 1/500 dilution followed by **ab150120** at 1/1,000 dilution.

-ve control 2: **ab7291** at 1/1000 dilution followed by **ab150077** at 1/1,000 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol, and sodium azide (**ab184308**).

Why choose a recombinant antibody?

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

Anti-CD11b antibody [EPR19387] - BSA and Azide free (ab232427)

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