abcam

Product datasheet

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

Recombinant RabMAb

3 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
Immunogen	Synthetic peptide within Mouse CD11b aa 1100 to the C-terminus. The exact sequence is proprietary. Database link: P05555
Positive control	ICC/IF: RAW 264.7 cells.
General notes	Ab232427 is the carrier-free version of ab184308. This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes. Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency. 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. ab232427 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm. *Maxpar® is a trademark of Fluidigm Canada Inc.* Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents. This product is a recombinant rabbit monoclonal antibody.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long

	term. Avoid freeze / thaw cycle.
Storage buffer	Constituent: PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR19387
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab232427** in the following tested applications.

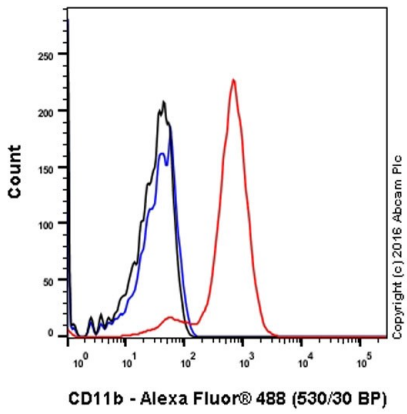
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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.

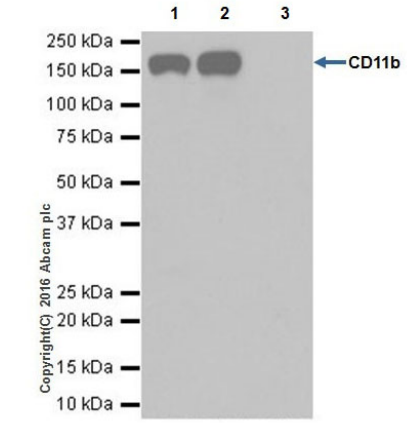
Images



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

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).



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

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).

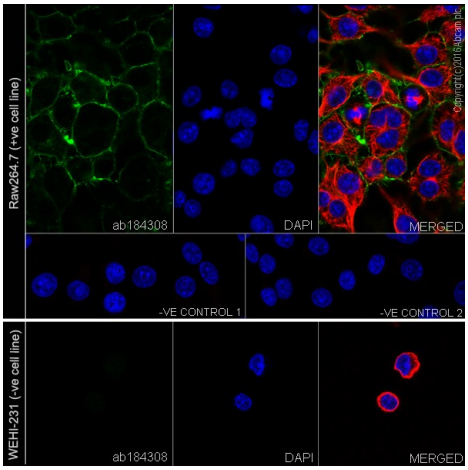
Lane 2: ab184308 IP in RAW 264.7 whole cell lysate.

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).

- 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.

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