


Product datasheet

Anti-CD11 α antibody [EP1285Y] - Low endotoxin, Azide free ab246701

Recombinant RabMAb

6 Images

Overview

Product name	Anti-CD11a antibody [EP1285Y] - Low endotoxin, Azide free
Description	Rabbit monoclonal [EP1285Y] to CD11a - Low endotoxin, Azide free
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, IP, Flow Cyt, IHC-P, WB
Species reactivity	Reacts with: Human Predicted to work with: Cynomolgus monkey 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Jurkat and TPH-1 whole cell lysates. IHC-P: Human squamous cell cervical carcinoma and tonsil tissue. ICC/IF: Jurkat cell line Flow: Jurkat cell line IP: Jurkat whole cell extract
General notes	<p>ab246701 is the carrier-free version of ab52895.</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 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> <p>Our Low endotoxin, azide-free formats have low endotoxin level (≤ 1 EU/ml, determined by the</p>

LAL assay) and are free from azide, to achieve consistent experimental results in functional assays.

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

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
Purification notes	Endotoxin level is less than 1 EU/ml as determined by the TAL test.
Clonality	Monoclonal
Clone number	EP1285Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab246701 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. ab199376 - Rabbit monoclonal IgG (Low endotoxin, Azide free), is suitable for use as an isotype control with this antibody.
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
WB		Use at an assay dependent concentration.

Target

Function Integrin alpha-L/beta-2 is a receptor for ICAM1, ICAM2, ICAM3 and ICAM4. It is involved in a variety of immune phenomena including leukocyte-endothelial cell interaction, cytotoxic T-cell mediated killing, and antibody dependent killing by granulocytes and monocytes.

Tissue specificity Leukocytes.

Sequence similarities

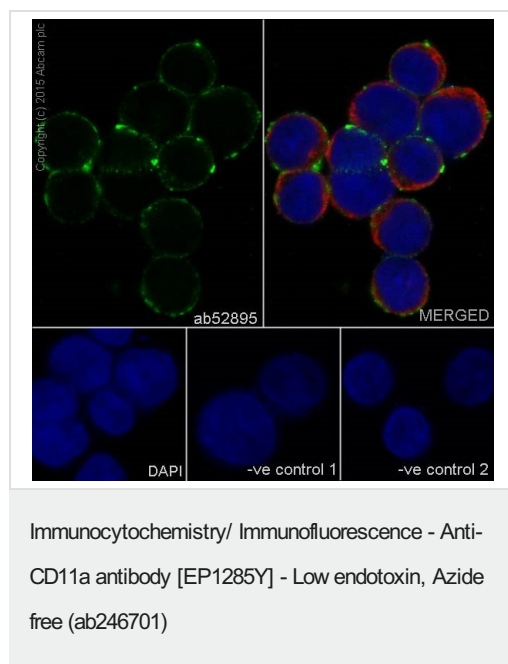
Belongs to the integrin alpha chain family.
Contains 7 FG-GAP repeats.
Contains 1 VWFA domain.

Domain

The integrin I-domain (insert) is a VWFA domain. Integrins with I-domains do not undergo protease cleavage.

Cellular localization

Membrane.

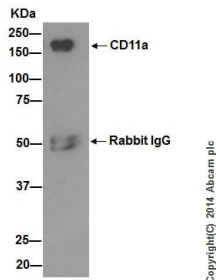
Images

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Jurkat (Human T cell leukemia cells from peripheral blood) cells labeling CD11a with [ab52895](#) at 1/100 dilution. Goat anti-rabbit IgG (Alexa Fluor[®] 488) ([ab150077](#)) at 1/400 dilution was used as the secondary antibody (green). Confocal image shows membrane and cytoplasmic staining on Jurkat cells. The nuclear counter stain is DAPI (blue). Tubulin is detected with [ab7291](#) (anti-Tubulin mouse mAb) at 1/500 and [ab150120](#) (AlexaFluor[®]594 Goat anti-Mouse secondary) at 1/500 dilution (red).

The negative controls are as follows;

1. [ab52895](#) at 1/100 dilution followed by [ab150120](#) (AlexaFluor[®]594 Goat anti-Mouse secondary) at 1/500 dilution.
2. [ab7291](#) (anti-Tubulin mouse mAb) at 1/500 dilution followed by [ab150077](#) (Alexa Fluor[®]488 Goat Anti-Rabbit IgG H&L) at 1/400 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol and sodium azide ([ab52895](#)).

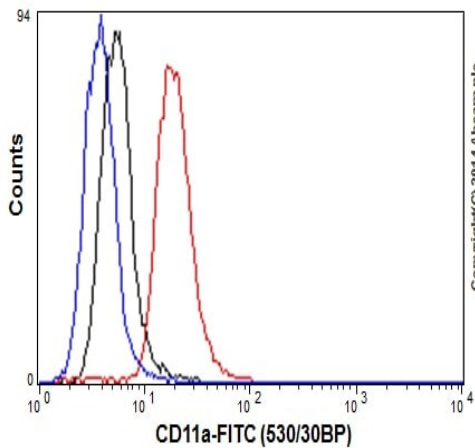


Immunoprecipitation - Anti-CD11a antibody
[EP1285Y] - Low endotoxin, Azide free (ab246701)

CD11a was immunoprecipitated from 1mg of Jurkat (Human T cell leukemia cells from peripheral blood) whole cell lysates using **ab52895** at 1/50 dilution. Western blot was performed from the immunoprecipitate using **ab52895** at 1/1000 dilution. Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1000 dilution.

Blocking and dilution buffer and concentration: 5% NFD/MTBST.

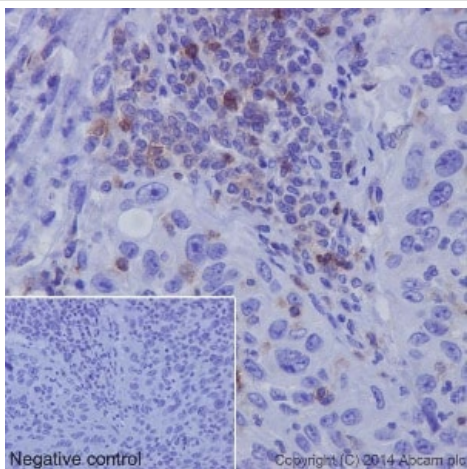
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol and sodium azide (**ab52895**).



Flow Cytometry - Anti-CD11a antibody [EP1285Y] -
Low endotoxin, Azide free (ab246701)

Flow cytometry analysis of 2% paraformaldehyde fixed Jurkat (Human T cell leukemia cells from peripheral blood) cells labeling CD11a with **ab52895** at 1/50 dilution (red line). Secondary antibody used is a goat anti rabbit IgG (FITC) at 1/150 dilution. The isotype control is rabbit monoclonal IgG (black line). The unlabeled control is cells without incubation with primary and secondary antibodies (blue line).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol and sodium azide (**ab52895**).

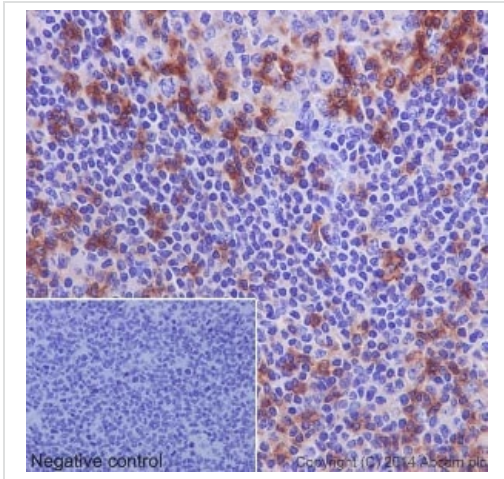


Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-CD11a antibody
[EP1285Y] - Low endotoxin, Azide free (ab246701)

Immunohistochemical analysis of paraffin-embedded human squamous cell cervical carcinoma labeling CD11a with **ab52895** at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab79051**) at 1/500 dilution. Membrane/cytoplasmic staining on stromal inflammatory cells of human cervical cancer is observed. The negative control utilized PBS instead of primary antibody. Counterstained with hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol and sodium azide (**ab52895**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD11a antibody [EP1285Y] - Low endotoxin, Azide free (ab246701)





Immunohistochemical analysis of paraffin-embedded human tonsil labeling CD11a with **ab52895** at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (**ab79051**) at 1/500 dilution.

Membrane/cytoplasm staining on lymphocytes of human tonsil is observed. The negative control utilized PBS instead of primary antibody. Counterstained with hematoxylin.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA, glycerol and sodium azide (**ab52895**).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

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-CD11a antibody [EP1285Y] - Low endotoxin, Azide free (ab246701)

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