

Product datasheet

Anti-CD42b antibody [SP219] ab183345

Recombinant **RabMAb**

★★★★★ 7 Abreviews 2 References 10 Images

Overview

Product name	Anti-CD42b antibody [SP219]
Description	Rabbit monoclonal [SP219] to CD42b
Host species	Rabbit
Tested applications	Suitable for: IHC-Fr, Flow Cyt, IHC-P
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Dog ▲
Immunogen	Synthetic peptide within Human CD42b aa 600 to the C-terminus (C terminal). The exact sequence is proprietary. Database link: P07359
Positive control	IHC-P: Human spleen and bone marrow and mouse spleen tissues. IHC-Fr: Mouse spleen tissue Flow Cyt: Mouse splenocytes cells, Jurkat and HEL cells.
General notes	This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.

This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity
- Long-term security of supply
- Animal-free production

For more information [see here](#).

Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is

Abpromise guaranteed for.

We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

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	pH: 7.60 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
Purity	Protein A/G purified
Purification notes	Purified from TCS by protein A/G.
Clonality	Monoclonal
Clone number	SP219
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab183345** in the following tested applications.

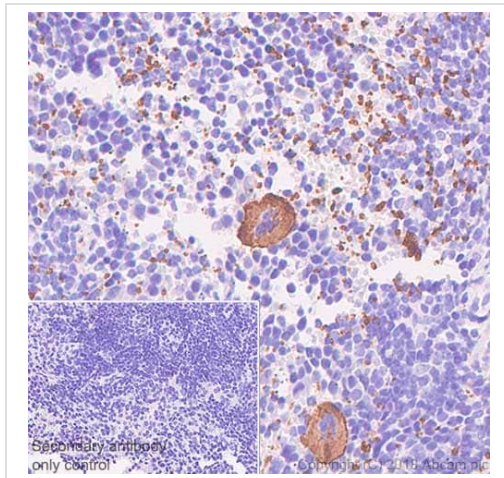
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-Fr	★★★★☆	1/100.
Flow Cyt		1/20 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IHC-P	★★★★★	1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Target

Relevance	CD42b is a platelet activation marker involved in the process of coagulation as an aggregating factor. It interacts with extracellular matrix as well as with adhesion molecules. Its expression and activation seems to be regulated by VEGF and PDGF.
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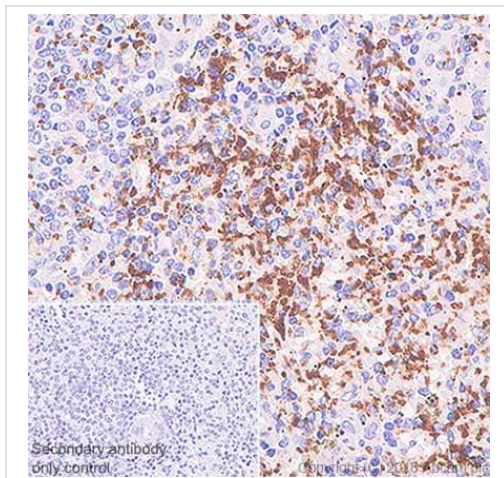
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD42b antibody [SP219] (ab183345)

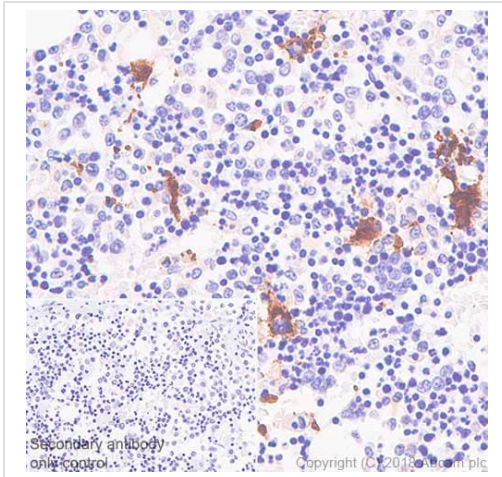
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Mouse spleen tissue sections labeling CD42b with ab183345 at 1/100 dilution (1.94 µg/ml). Heat mediated antigen retrieval with citrate buffer (pH 6.0, epitope retrieval solution 1) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Hematoxylin was used as a counterstain. Positive staining on platelets and megakaryocytes in the mouse spleen, performed on a Leica Biosystems BOND™ RX instrument.

The section was incubated with ab183345 for 10 mins at room temperature.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD42b antibody [SP219] (ab183345)

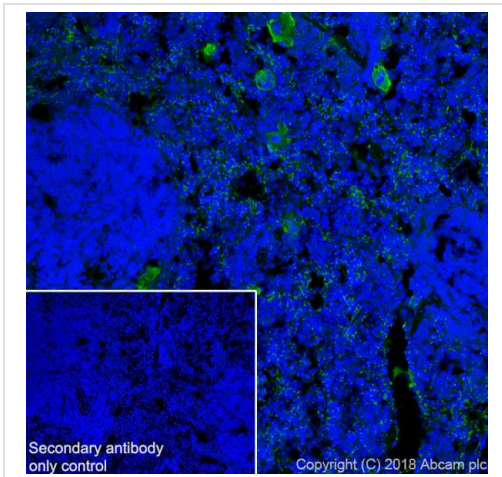
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human spleen tissue sections labeling CD42b with ab183345 at 1/100 dilution (1.94 µg/ml). Heat mediated antigen retrieval with citrate buffer (pH 6.0, epitope retrieval solution 1) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Hematoxylin was used as a counterstain. Positive staining on platelets in the human spleen, performed on a Leica Biosystems BOND™ RX instrument. The section was incubated with ab183345 for 10 mins at room temperature.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD42b antibody [SP219] (ab183345)

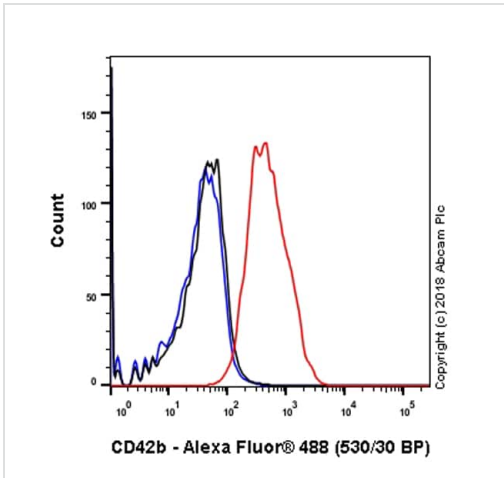
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of Human bone marrow tissue sections labeling CD42b with ab183345 at 1/100 dilution (1.94 µg/ml). Heat mediated antigen retrieval with citrate buffer (pH 6.0, epitope retrieval solution 1) for 10mins. Rabbit specific IHC polymer detection kit HRP/DAB (ab209101) was used as the secondary antibody. Hematoxylin was used as a counterstain. Positive staining on the megakaryocytes in the human bone marrow, performed on a Leica Biosystems BOND™ RX instrument.

The section was incubated with ab183345 for 10 mins at room temperature.



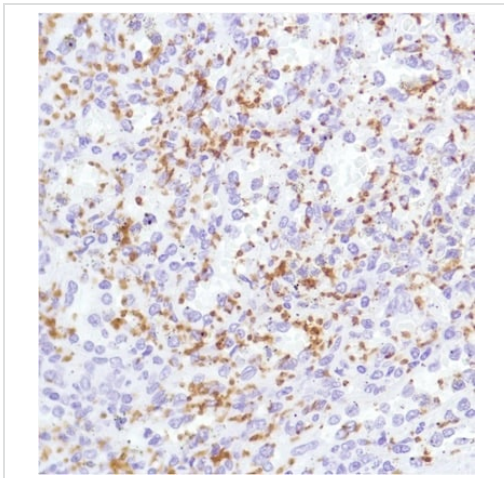
Immunohistochemistry (Frozen sections) - Anti-CD42b antibody [SP219] (ab183345)

Immunohistochemistry (Frozen) analysis of mouse spleen tissue section labeling CD42b with purified ab183345 at 1/100 (1.9 µg/ml). Sections were fixed in 4% paraformaldehyde and permeabilized with 0.2% Triton X-100. Antigen retrieval was heat mediated antigen retrieval using sodium citrate buffer (10mM citrate pH 6.0 + 0.05% Tween-20). Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) was used as the secondary antibody at 1/1000 (2 µg/ml) dilution. DAPI was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



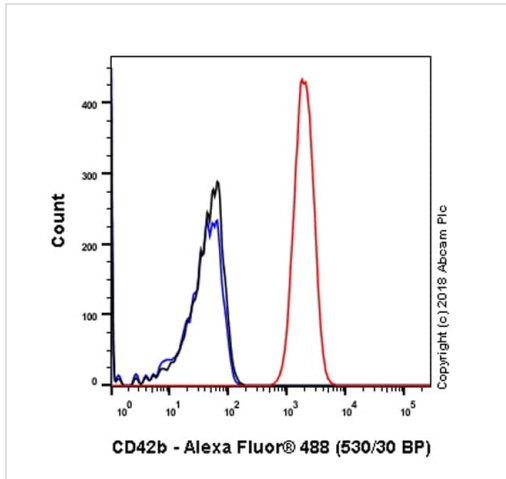
Flow Cytometry - Anti-CD42b antibody [SP219]
(ab183345)

Flow cytometry analysis of mouse splenocytes cell labeling CD42b with purified ab183345 at 1/20 dilution (9.7 µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. Goat anti rabbit IgG (Alexa Fluor® 488, ab150081) at 1/2000 dilution was used as a secondary antibody. Isotype control - Rabbit monoclonal IgG (ab172730) (Black). Unlabeled control - Unlabeled cells (blue).



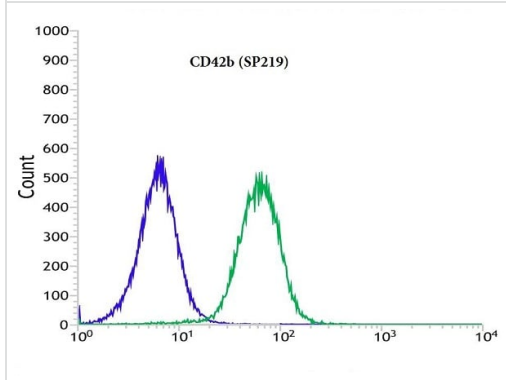
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD42b antibody [SP219]
(ab183345)

Immunohistochemical analysis of paraffin embedded human spleen tissue labeling CD42b with ab183345 at 1/100 dilution.



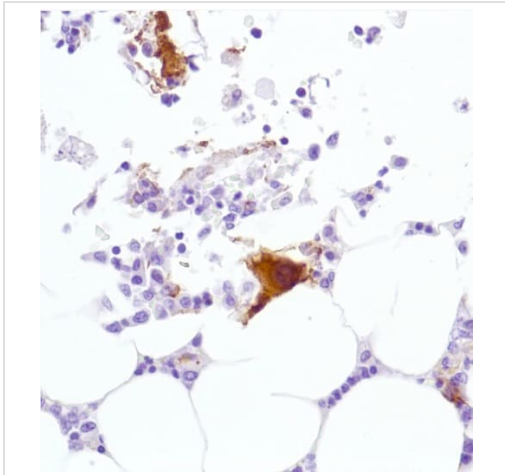
Flow cytometry analysis of HEL (human bone marrow erythroleukemia) labeling CD42b with purified ab183345 at 1/20 dilution (9.7 µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) at 1/2000 dilution was used as a secondary antibody. Isotype control - Rabbit monoclonal IgG ([ab172730](#)) (Black). Unlabeled control - Unlabeled cells (blue).

Flow Cytometry - Anti-CD42b antibody [SP219]
(ab183345)



Flow cytometric analysis of rabbit anti-CD42b (SP219) antibody using ab183345 (diluted 1/400) in Jurkat cells (green) compared to negative control of rabbit IgG (blue).

Flow Cytometry - Anti-CD42b antibody [SP219]
(ab183345)



Immunohistochemical analysis of paraffin embedded human bone marrow tissue labeling CD42b with ab183345 at 1/100 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD42b antibody [SP219] (ab183345)

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-CD42b antibody [SP219] (ab183345)

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

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