

Product datasheet

Anti-CD42b antibody [SP219] - BSA and Azide free
ab240268

Recombinant RabMAb

10 Images

Overview

Product name	Anti-CD42b antibody [SP219] - BSA and Azide free
Description	Rabbit monoclonal [SP219] to CD42b - BSA and Azide free
Host species	Rabbit
Tested applications	Suitable for: Flow Cyt, IHC-Fr, 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	FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com . Ab240268 is the carrier-free version of ab183345 . 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.

ab240268 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm.

Maxpar® is a trademark of Fluidigm Canada Inc.

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. Do Not Freeze.
Storage buffer	pH: 7.20 Constituent: PBS
Carrier free	Yes
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 **ab240268** 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
Flow Cyt		Use at an assay dependent concentration. ab199376 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IHC-Fr		Use at an assay dependent concentration.

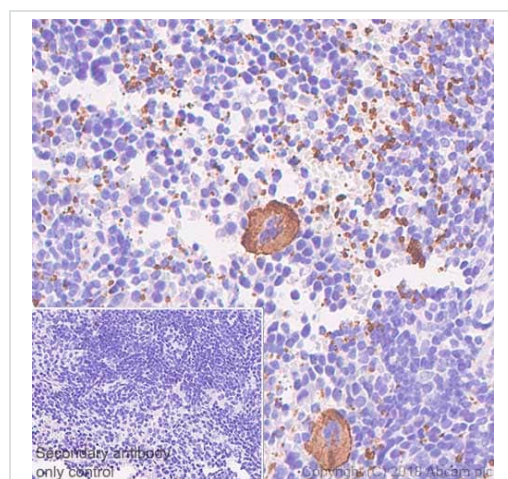
Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

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.

Cellular localization Cell Membrane

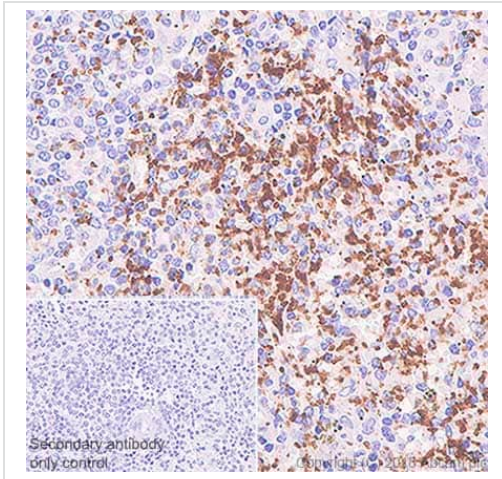
Images



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 Tris-EDTA 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. This image was generated using [ab183345](#), the same clone, but with a different buffer formulation.

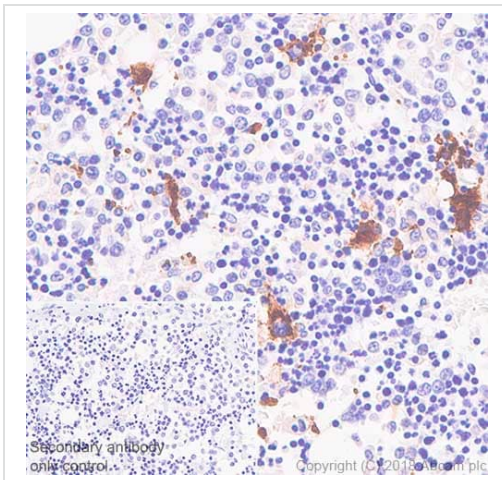
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD42b antibody [SP219] - BSA and Azide free ([ab240268](#))



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD42b antibody [SP219]
- BSA and Azide free (ab240268)

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 Tris-EDTA 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.

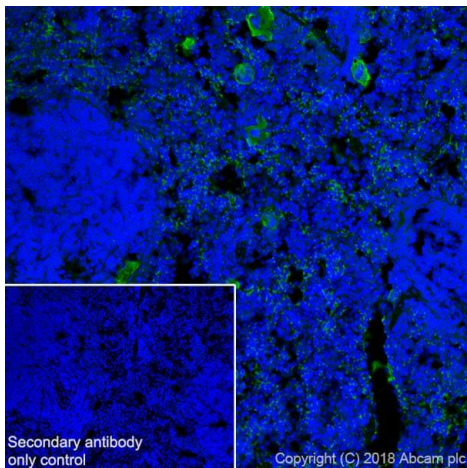
The section was incubated with [ab183345](#) for 10 mins at room temperature. This image was generated using [ab183345](#), the same clone, but with a different buffer formulation.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD42b antibody [SP219]
- BSA and Azide free (ab240268)

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 Tris-EDTA 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.

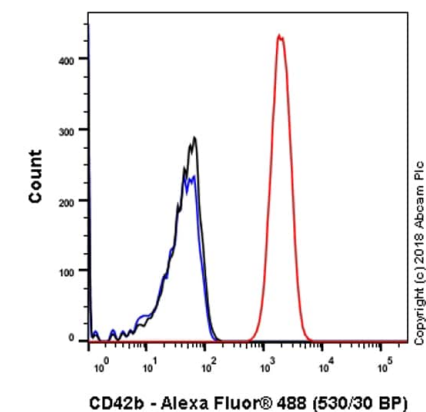
The section was incubated with [ab183345](#) for 10 mins at room temperature. This image was generated using [ab183345](#), the same clone, but with a different buffer formulation.



Immunohistochemistry (Frozen sections) - Anti-CD42b antibody [SP219] - BSA and Azide free (ab240268)

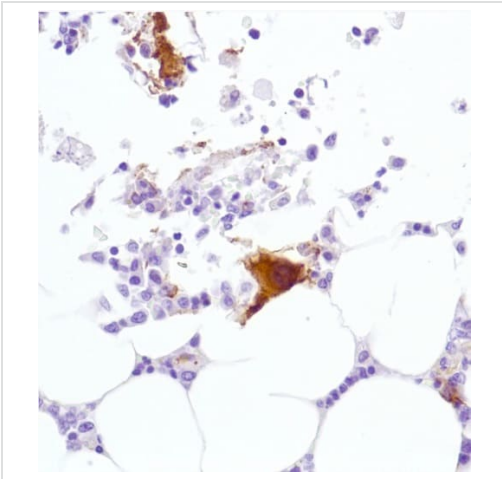
Immunohistochemistry (Frozen) analysis of mouse spleen tissue section labeling CD42b with purified [ab183345](#) at 1/100 (1.9 µg/ml). Sections were fixed in 4% paraformaldehyde and permeabilized with 0.2% Triton X-100. Antigen retrieval was heat mediated antigen retrieval using sodium citrate buffer (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.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab183345](#)).



Flow Cytometry - Anti-CD42b antibody [SP219] - BSA and Azide free (ab240268)

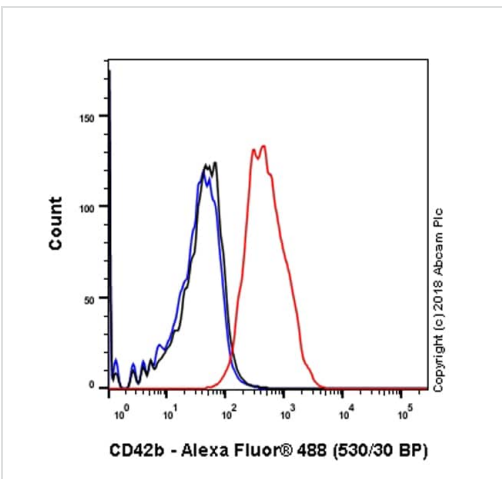
Flow cytometry analysis of HEL (human bone marrow erythroleukemia) labeling CD42b with purified [ab183345](#) at 1/20 dilution (9.7 µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. Goat anti rabbit IgG (Alexa Fluor® 488, [ab150077](#)) at 1/2000 dilution was used as a secondary antibody. Isotype control - Rabbit monoclonal IgG ([ab172730](#)) (black). Unlabeled control - Unlabeled cells (blue). This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab183345](#)).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD42b antibody [SP219] - BSA and Azide free (ab240268)

Immunohistochemical analysis of paraffin embedded human bone marrow tissue labeling CD42b with [ab183345](#) at 1/100 dilution.

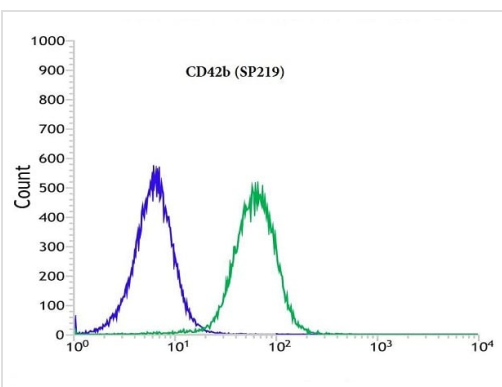
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab183345](#)).



Flow Cytometry - Anti-CD42b antibody [SP219] - BSA and Azide free (ab240268)

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 permeabilized with 90% methanol. Goat anti rabbit IgG (Alexa Fluor® 488, [ab150081](#)) at 1/2000 dilution was used as a secondary antibody. Isotypecontrol - Rabbit monoclonal IgG ([ab172730](#)) (black). Unlabeled control - Unlabeled cells (blue).

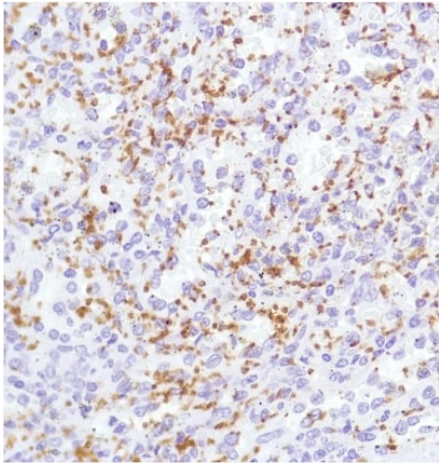
This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab183345](#)).



Flow Cytometry - Anti-CD42b antibody [SP219] - BSA and Azide free (ab240268)

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).

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab183345](#)).



Immunohistochemical analysis of paraffin embedded human spleen tissue labeling CD42b with [ab183345](#) at 1/100 dilution.

This data was developed using the same antibody clone in a different buffer formulation containing PBS, BSA and sodium azide ([ab183345](#)).

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD42b antibody [SP219]
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Why choose a recombinant antibody?



Anti-CD42b antibody [SP219] - BSA and Azide free ([ab240268](#))

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

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