

## Product datasheet

### Anti-CD42b antibody [EPR6995] ab134087

Recombinant RabMAb

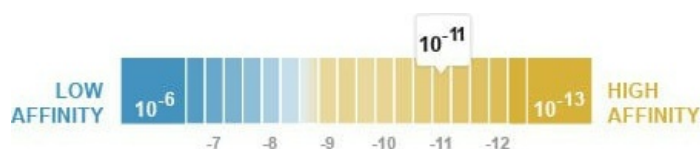
[13 References](#) [6 Images](#)

#### Overview

|                     |  |
|---------------------|--|
| Product name        | Anti-CD42b antibody [EPR6995]  |
| Description         | Rabbit monoclonal [EPR6995] to CD42b   |
| Host species        | Rabbit   |
| Tested applications | <b>Suitable for:</b> WB, IHC-P<br><b>Unsuitable for:</b> ICC/IF  |
| Species reactivity  | <b>Reacts with:</b> Human  |
| Immunogen           | Synthetic peptide within Human CD42b aa 1-100. The exact sequence is proprietary.  |
| Positive control    | Human platelet lysate, Human spleen tissue   |
| General notes       | <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p> |

#### 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. Stable for 12 months at -20°C. |
| Dissociation constant (K <sub>D</sub> ) | K <sub>D</sub> = 4.70 x 10 <sup>-11</sup> M   |



## [Learn more about K<sub>D</sub>](#)

|                       |  |
|-----------------------|--|
| <b>Storage buffer</b> | pH: 7.20<br>Preservative: 0.01% Sodium azide<br>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.21% BSA |
| <b>Purity</b>         | Protein A purified   |
| <b>Clonality</b>      | Monoclonal   |
| <b>Clone number</b>   | EPR6995  |
| <b>Isotype</b>        | IgG  |

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab134087 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

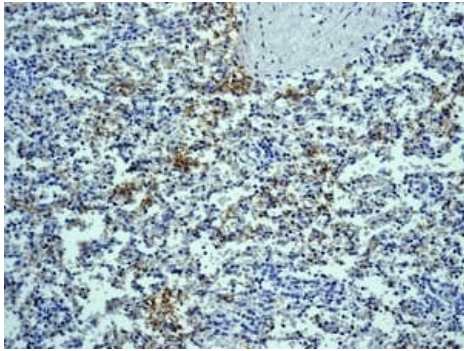
| Application  | Abreviews | Notes  |
|--------------|-----------|--|
| <b>WB</b>    |           | 1/10000 - 1/50000. Detects a band of approximately 143 kDa (predicted molecular weight: 69 kDa).     |
| <b>IHC-P</b> |           | 1/100 - 1/250. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. |

**Application notes** Is unsuitable for ICC/IF.

## Target

|   |   |
|---|---|
| <b>Function</b>                         | GP-Ib, a surface membrane protein of platelets, participates in the formation of platelet plugs by binding to the A1 domain of vWF, which is already bound to the subendothelium. |
| <b>Involvement in disease</b>           | Non-arteritic anterior ischemic optic neuropathy<br>Bernard-Soulier syndrome<br>Bernard-Soulier syndrome A2, autosomal dominant<br>Pseudo-von Willebrand disease                  |
| <b>Sequence similarities</b>            | Contains 7 LRR (leucine-rich) repeats.<br>Contains 1 LRRCT domain.<br>Contains 1 LRRNT domain.  |
| <b>Post-translational modifications</b> | Glycocalicin, which is approximately coextensive with the extracellular part of the molecule, is cleaved off by calpain during platelet lysis.                                    |
| <b>Cellular localization</b>            | Membrane.   |

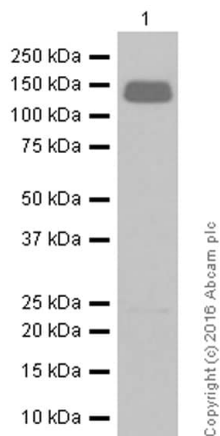
## Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD42b antibody [EPR6995] (ab134087)

Immunohistochemical analysis of paraffin embedded Human spleen tissue labelling CD42b with ab134087 at a dilution of 1/100.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.



Western blot - Anti-CD42b antibody [EPR6995] (ab134087)

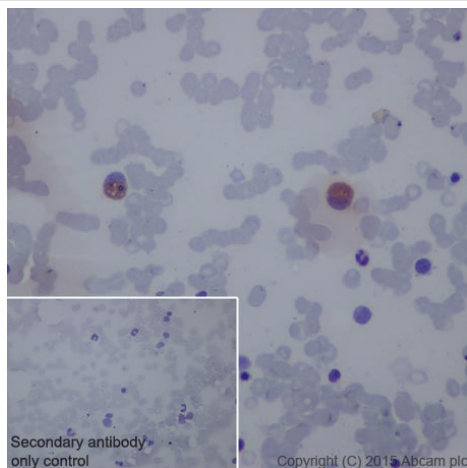
Anti-CD42b antibody [EPR6995] (ab134087) at 1/10000 dilution + Human platelets at 20  $\mu$ g

### Secondary

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/2000 dilution

**Predicted band size:** 69 kDa

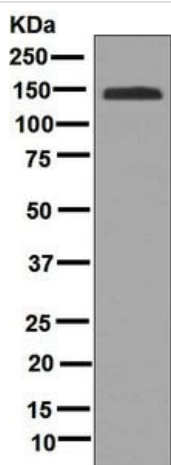
**Diluting and blocking buffer:** 5% NFDM/TBST



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD42b antibody [EPR6995] (ab134087)

ab134087 staining CD42b in human bone marrow tissue by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with paraffin and antigen retrieval was by heat mediation in a EDTA buffer. Samples were incubated with primary antibody at a dilution of 1/250. A goat anti-rabbit IgG H&L (HRP) **ab97051** was used as the secondary antibody at 1/500.

**Negative control 1:** PBS in place of primary antibody.



Western blot - Anti-CD42b antibody [EPR6995] (ab134087)

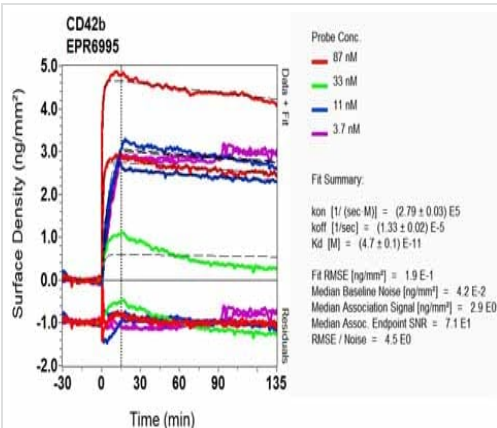
Anti-CD42b antibody [EPR6995] (ab134087) at 1/10000 dilution + Human platelet lysate at 10  $\mu$ g

### Secondary

HRP labelled Goat anti-rabbit at 1/2000 dilution

**Predicted band size:** 69 kDa

**Observed band size:** 143 kDa







O1-RD Scanning - Anti-CD42b antibody [EPR6995] (ab134087)

Equilibrium disassociation constant ( $K_D$ )

Learn more about  $K_D$

**[Click here to learn more about  \$K\_D\$](#)**

Why choose a recombinant antibody?

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

Anti-CD42b antibody [EPR6995] (ab134087)

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

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