

Product datasheet

Anti-CD79b antibody [EPR6861] ab134147

Recombinant RabMAb

★ ★ ★ ★ ★ 1 Abreviews 2 References 11 Images

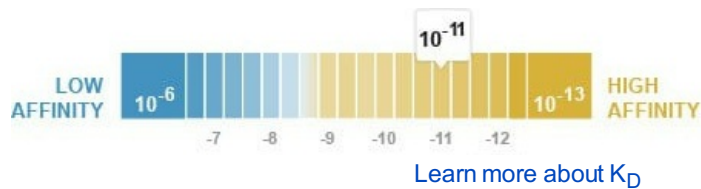
Overview

| | |
|----------------------------|---|
| Product name | Anti-CD79b antibody [EPR6861] |
| Description | Rabbit monoclonal [EPR6861] to CD79b |
| Host species | Rabbit |
| Tested applications | Suitable for: ICC/IF, WB, IHC-P, Flow Cyt |
| Species reactivity | Reacts with: Mouse, Rat, Human |
| Immunogen | Synthetic peptide corresponding to residues on the C-terminal in Human CD79b (P40259). |
| Positive control | Daudi, Namalwa, and Raji cell lysates, Human spleen and tonsil Tissue Flow Cyt: Raji cells |
| General notes | <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>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>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.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>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.</p> <p>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.</p> <p>Please check that this product meets your needs before purchasing. If you have any questions,</p> |

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. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles. |
| Dissociation constant (K_D) | K _D = 4.70 x 10 ⁻¹¹ M |



| | |
|-----------------------|---|
| Storage buffer | pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant |
| Purity | Tissue culture supernatant |
| Clonality | Monoclonal |
| Clone number | EPR6861 |
| Isotype | IgG |

Applications

Our [Abpromise guarantee](#) covers the use of **ab134147** 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 | | 1/250 - 1/500. |
| WB | ★ ★ ★ ★ ★ | 1/1000 - 1/10000. Predicted molecular weight: 26 kDa. |
| IHC-P | | 1/250 - 1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. |
| Flow Cyt | | 1/10 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody. |

Target

| | |
|-----------------|---|
| Function | Required in cooperation with CD79A for initiation of the signal transduction cascade activated by the B-cell antigen receptor complex (BCR) which leads to internalization of the complex, trafficking to late endosomes and antigen presentation. Enhances phosphorylation of CD79A, possibly by |
|-----------------|---|

recruiting kinases which phosphorylate CD79A or by recruiting proteins which bind to CD79A and protect it from dephosphorylation.

Tissue specificity

B-cells.

Involvement in disease

Defects in CD79B are the cause of agammaglobulinemia type 6 (AGM6) [MIM:612692]. It is a primary immunodeficiency characterized by profoundly low or absent serum antibodies and low or absent circulating B cells due to an early block of B-cell development. Affected individuals develop severe infections in the first years of life.

Sequence similarities

Contains 1 Ig-like V-type (immunoglobulin-like) domain.
Contains 1 ITAM domain.

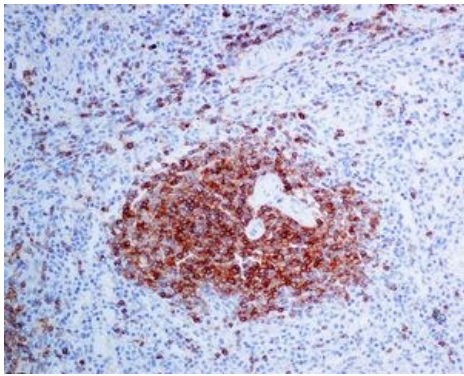
Post-translational modifications

Phosphorylated on tyrosine upon B-cell activation.

Cellular localization

Cell membrane. Following antigen binding, the BCR has been shown to translocate from detergent-soluble regions of the cell membrane to lipid rafts although signal transduction through the complex can also occur outside lipid rafts.

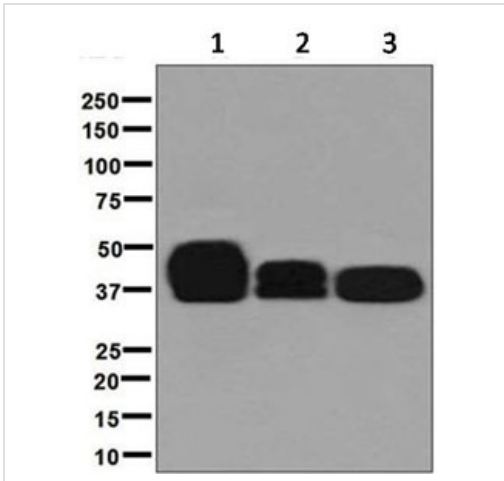
Images



Immunohistochemical analysis of paraffin embedded Human spleen tissue labelled with ab134147 at 1/250 dilution.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD79b antibody [EPR6861] (ab134147)



Western blot - Anti-CD79b antibody [EPR6861] (ab134147)

All lanes : Anti-CD79b antibody [EPR6861] (ab134147) at 1/1000 dilution

Lane 1 : Daudi cell lysates

Lane 2 : Namalwa cell lysates

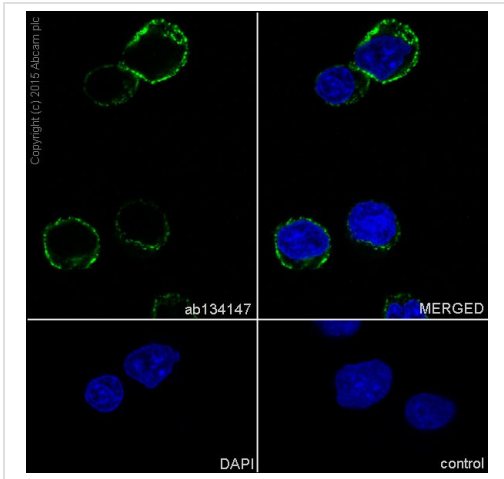
Lane 3 : Raji cell lysates

Lysates/proteins at 10 µg per lane.

Secondary

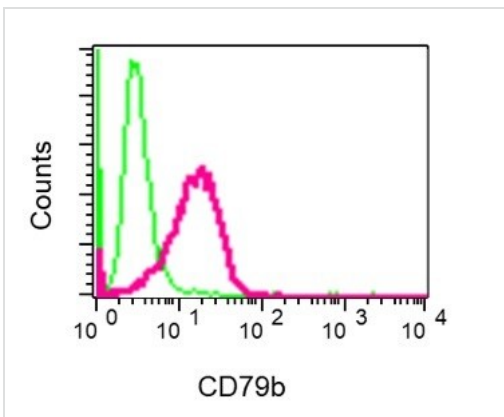
All lanes : HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 26 kDa



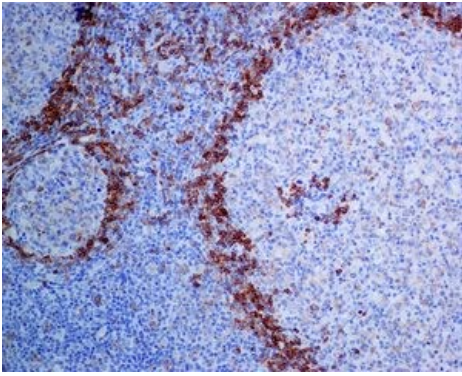
Immunocytochemistry/ Immunofluorescence - Anti-CD79b antibody [EPR6861] (ab134147)

Immunofluorescence staining of Daudi cells with purified ab134147 at a working dilution of 1/500, counter-stained with DAPI. The secondary antibody was an Alexa Fluor[®] 488 conjugated goat anti-rabbit (ab150077), used at a dilution of 1/1000. The cells were fixed in 4% PFA and permeabilized using 0.1% Triton X 100. The negative control is shown in bottom right hand panel - for the negative control, PBS was used instead of the primary antibody.



Flow Cytometry - Anti-CD79b antibody [EPR6861] (ab134147)

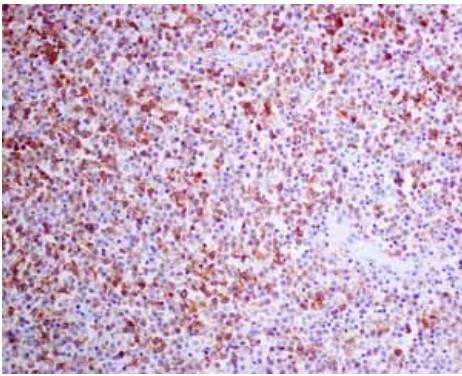
Flow Cytometry analysis of Raji cells labeling CD79b with ab134147 at 1/20 dilution (red). A rabbit IgG was used as negative control (green).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD79b antibody [EPR6861] (ab134147)

Immunohistochemical analysis of paraffin embedded Human tonsil tissue labelled with ab134147 at 1/250 dilution.

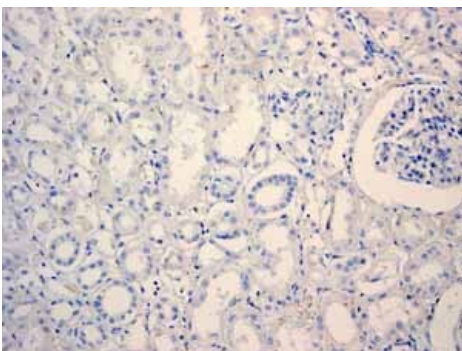
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD79b antibody [EPR6861] (ab134147)

ab134147 showing positive staining in Diffuse B-cell lymphoma tissue.

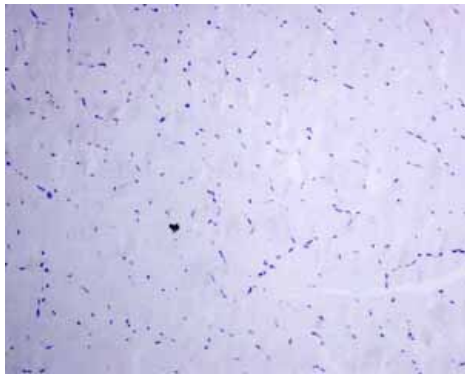
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD79b antibody [EPR6861] (ab134147)

ab134147 showing negative staining in Normal kidney tissue.

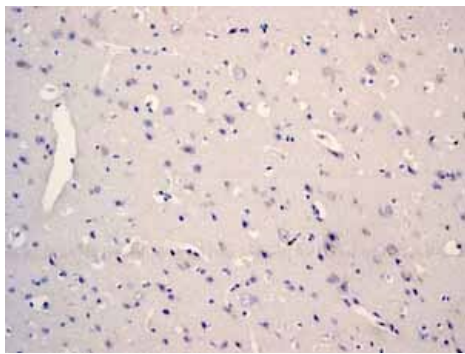
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD79b antibody [EPR6861] (ab134147)

ab134147 showing negative staining in Skeletal muscle tissue.

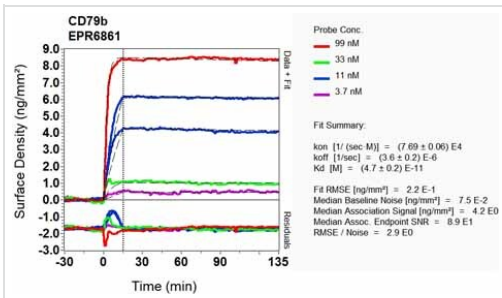
Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD79b antibody [EPR6861] (ab134147)

ab134147 showing negative staining in Normal brain tissue.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



OI-RD Scanning - Anti-CD79b antibody [EPR6861] (ab134147)

Equilibrium disassociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

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-CD79b antibody [EPR6861] (ab134147)

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