

Anti-CD79b antibody [EPR6861] ab134147

重组 RabMAb

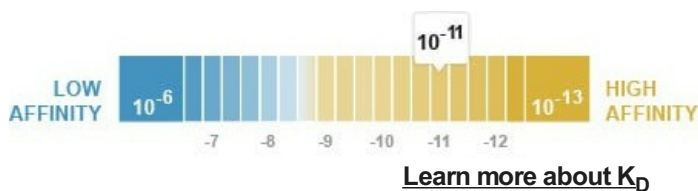
★★★★★ [1 Abreviews](#) [6 References](#) [9 图像](#)

概述

产品名称	Anti-CD79b抗体[EPR6861]
描述	兔单克隆抗体[EPR6861] to CD79b
宿主	Rabbit
经测试应用	适用于: ICC/IF, WB, IHC-P, Flow Cyt
种属反应性	与反应: Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	IHC-P: Human tonsil, mouse and rat spleen tissue; ICC/IF: Daudi cells; Flow Cyt: Raji cells. WB: Raji whole lysate. Mouse and rat spleen lysates.
常规说明	<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>

性能

形式	Liquid
存放说明	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.
解离常数 (K _D)	K _D = 4.70 x 10 ⁻¹¹ M



存储溶液	pH: 7.20 Preservative: 0.01% Sodium azide
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	Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR6861
同种型	IgG

应用

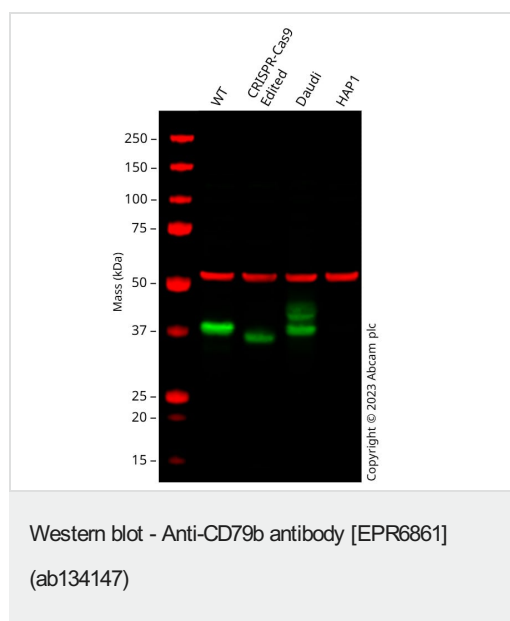
The Abpromise guarantee **Abpromise™** 承诺保证使用ab134147于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF		1/50. For unpurified use at 1/250 - 1/500.
WB	★ ★ ★ ★ ★ (1)	1/1000. Predicted molecular weight: 26 kDa. For unpurified use at 1/1000 - 1/10000.
IHC-P		1/500. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. For unpurified use at 1/250 - 1/500. See IHC antigen retrieval protocols .
Flow Cyt		1/20. For unpurified use at 1/10 - 1/100. ab172730 - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.

靶标

功能	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.
组织特异性	B-cells.
疾病相关	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.
序列相似性	Contains 1 Ig-like V-type (immunoglobulin-like) domain. Contains 1 ITAM domain.
翻译后修饰	Phosphorylated on tyrosine upon B-cell activation.
细胞定位	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.



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

Lane 1 : Wild-type Raji cell lysate

Lane 2 : CD79B CRISPR-Cas9 edited Raji cell lysate

Lane 3 : Daudi cell lysate

Lane 4 : HAP1 cell lysate

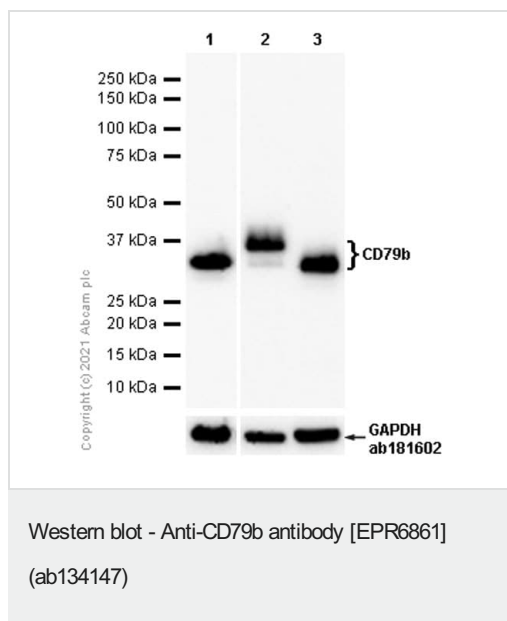
Lysates/proteins at 20 µg per lane.

Performed under reducing conditions.

Predicted band size: 26 kDa

Observed band size: 39 kDa

False colour image of Western blot: Anti-CD79b antibody [EPR6861] staining at 1/1000 dilution, shown in green; Mouse anti-Alpha Tubulin [DM1A] ([ab7291](#)) loading control staining at 1/20000 dilution, shown in red. In Western blot, ab134147 was shown to bind specifically to CD79b. A band was observed at 39 kDa in wild-type Raji cell lysates with no signal observed at this size in CD79B CRISPR-Cas9 edited cell line [ab273839](#) (CRISPR-Cas9 edited cell lysate [ab273793](#)). The band observed in the CRISPR-Cas9 edited lysate lane below 39 kDa is likely to represent a truncated form of CD79b. This has not been investigated further and the functional properties of the gene product have not been determined. To generate this image, wild-type and CD79B CRISPR-Cas9 edited Raji cell lysates were analysed. First, samples were run on an SDS-PAGE gel then transferred onto a nitrocellulose membrane. Membranes were blocked in 3 % milk in TBS-0.1 % Tween[®] 20 (TBS-T) before incubation with primary antibodies overnight at 4 °C. Blots were washed four times in TBS-T, incubated with secondary antibodies for 1 h at room temperature, washed again four times then imaged. Secondary antibodies used were Goat anti-Rabbit IgG H&L 800CW and Goat anti-Mouse IgG H&L 680RD at 1/20000 dilution.



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

Lane 1 : Raji (Human Burkitt's lymphoma B lymphocyte) whole cell lysate

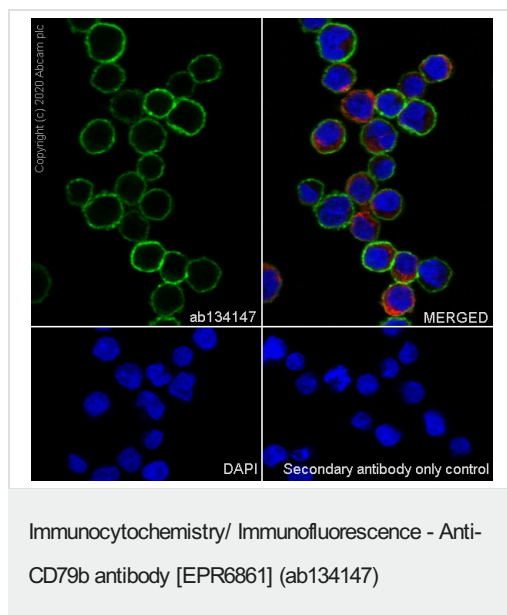
Lane 2 : Mouse spleen lysate

Lane 3 : Rat spleen lysate

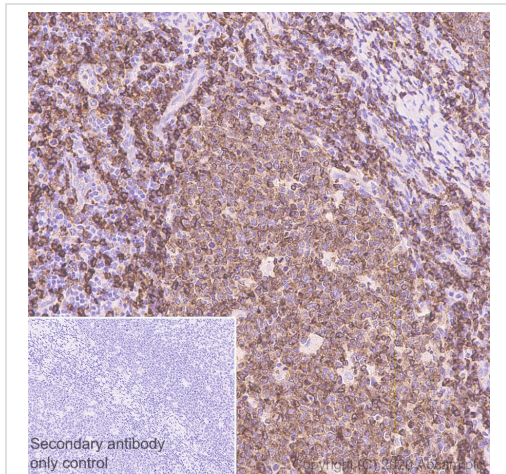
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

Predicted band size: 26 kDa



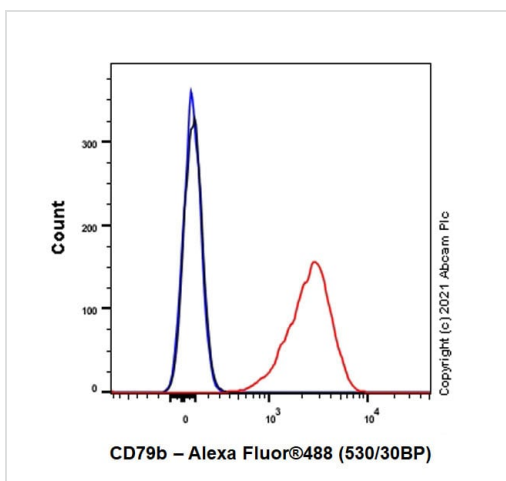
Immunocytochemistry analysis of Daudi (Human Burkitt's lymphoma lymphoblast) cells labeling CD79b with purified ab134147 at 1/50 dilution (2.04 µg/mL). Cells were fixed in 4% Paraformaldehyde and permeabilized with 0.1% TritonX-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/mL). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/mL) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.



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

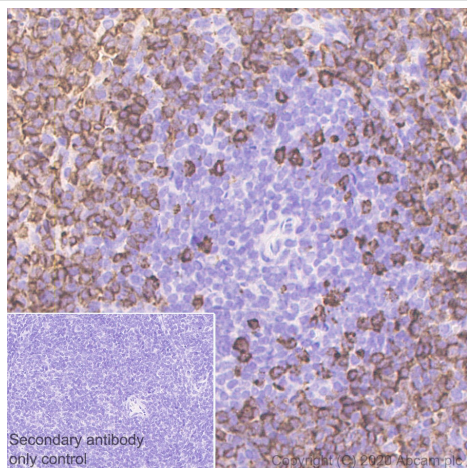
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human tonsil tissue sections labeling CD79b with purified ab134147 at 1/500 dilution (0.20 µg/mL). Heat mediated antigen retrieval was performed using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Tissue was counterstained with Hematoxylin. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) secondary antibody was used at 1/0 dilution. PBS instead of the primary antibody was used as the negative control.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



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

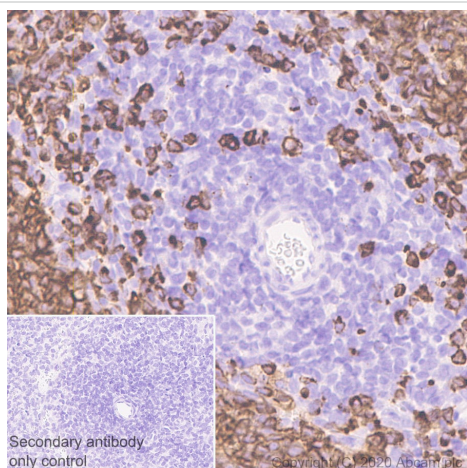
Flow Cytometry analysis of Raji (Human Burkitt's lymphoma B lymphocyte) cells labelling CD79b with purified ab134147 at 1/20 dilution (10 µg/mL) (Red). Cells were fixed with 4% Paraformaldehyde and permeabilised with 90% Methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) secondary antibody was used at 1/2000. Isotype control - Rabbit monoclonal IgG (Black). Unlabelled control - Cell without incubation with primary antibody and secondary antibody (Blue).



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

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of mouse spleen tissue sections labeling CD79b with purified ab134147 at 1/500 dilution (0.20 µg/mL). Heat mediated antigen retrieval was performed using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Tissue was counterstained with Hematoxylin. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) secondary antibody was used at 1/0 dilution. PBS instead of the primary antibody was used as the negative control.

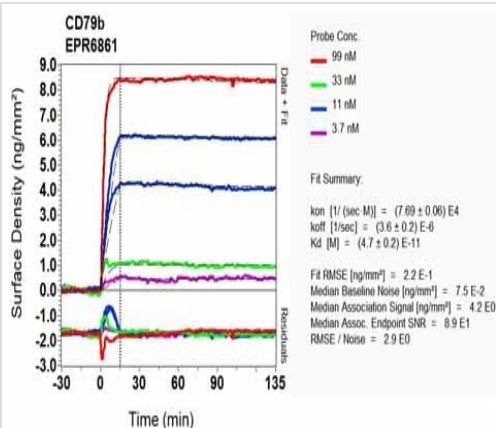
The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



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

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat spleen tissue sections labeling CD79b with purified ab134147 at 1/500 dilution (0.20 µg/mL). Heat mediated antigen retrieval was performed using Heat mediated antigen retrieval using Bond™ Epitope Retrieval Solution 2 (pH 9.0). Tissue was counterstained with Hematoxylin. Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**) secondary antibody was used at 1/0 dilution. PBS instead of the primary antibody was used as the negative control.

The immunostaining was performed on a Leica Biosystems BOND® RX instrument.



OIR-D Scanning - Anti-CD79b antibody [EPR6861] (ab134147)

Equilibrium disassociation constant (K_D)

Learn more about K_D

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

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Confirmed specificity



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Animal-free production

Anti-CD79b antibody [EPR6861] (ab134147)

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