

Product datasheet

Anti-CD79b antibody [SP240] ab183343

Recombinant RabMAb

★★★★☆ [1 Abreviews](#) [5 Images](#)

Overview

Product name	Anti-CD79b antibody [SP240]
Description	Rabbit monoclonal [SP240] to CD79b
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, IHC-P, Flow Cyt (Intra), WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Daudi Cell lysate. IHC: Human tonsil tissue. ICC/IF: Daudi cells. Flow Cyt: Daudi 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>This product is FOR RESEARCH USE ONLY. For commercial use, please contact partnerships@abcam.com.</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 long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.1% Sodium azide Constituents: PBS, 1% BSA
Purity	Protein A/G purified
Clonality	Monoclonal
Clone number	SP240
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab183343 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		1/50.
IHC-P	★★★★★ (1)	1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
Flow Cyt (Intra)		1/200.
WB		1/100. Detects a band of approximately 35-40 kDa (predicted molecular weight: 26 kDa).

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.

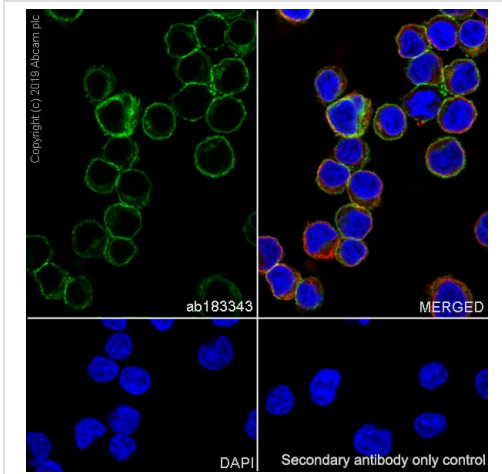
Post-translational modifications

Phosphorylated on tyrosine upon B-cell activation.

Cellular localization

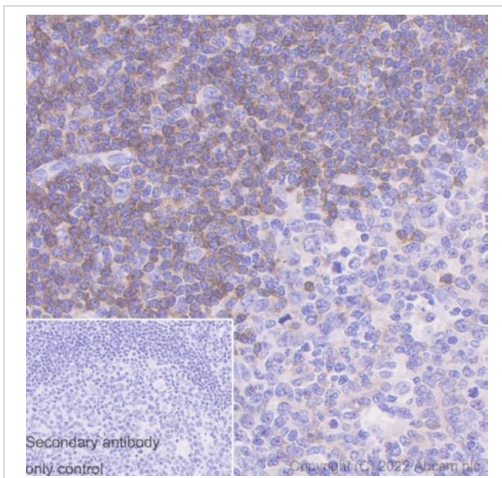
Cell membrane. Following antigen binding, the BCR has been shown to translocate from detergent-soluble regions of the cell membrane to lipid rafts although signal transduction through the complex can also occur outside lipid rafts.

Images



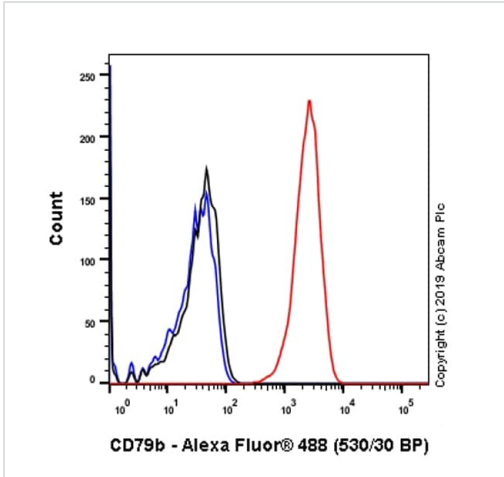
Immunocytochemistry/ Immunofluorescence - Anti-CD79b antibody [SP240] (ab183343)

Immunocytochemistry/ Immunofluorescence analysis of Daudi (human Burkitt's lymphoma lymphoblast) cells labeling CD79b with purified ab183343 at 1/50 (4.12 µg/ml). Cells were fixed in 4% paraformaldehyde and permeabilized with 0.1% Triton X-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 [SP240] (ab183343)

Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling CD79b with ab183343 at 1/100 (0.11 µg/ml) followed by Rabbit specific IHC polymer detection kit HRP/DAB (**ab209101**). The section was incubated with ab183343 for 10 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin. Heat mediated antigen retrieval with Citrate buffer (pH 6.0, epitope retrieval solution 2) for 20 mins was used.



Flow Cytometry (Intracellular) - Anti-CD79b antibody [SP240] (ab183343)

Flow Cytometry analysis of Daudi (Human Burkitt's lymphoma lymphoblast) cells labeling CD79b with purified ab183343 at 1/200 dilution (1.05 µg/ml) (red). Cells were fixed with 4% paraformaldehyde and permeabilised with 90% methanol. A Goat anti rabbit IgG (Alexa Fluor® 488, **ab150081**) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (**ab172730**) / Black. Unlabeled control - Unlabelled cells / blue.




Western blot - Anti-CD79b antibody [SP240] (ab183343)

Anti-CD79b antibody [SP240] (ab183343) at 1/100 dilution + Daudi Cell Lysate

Predicted band size: 26 kDa

This image was generated using the same antibody clone from a different batch.

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 [SP240] (ab183343)

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

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