

## Product datasheet

# Anti-CD79 $\alpha$ antibody ab231798

3 Images

### Overview

<b>Product name</b>	Anti-CD79a antibody
<b>Description</b>	Rabbit polyclonal to CD79a
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	<p>Recombinant fragment (His-T7-tag) corresponding to Human CD79a aa 36-219. N-terminal tags. (Expressed in E.coli).</p> <p>Sequence:</p> <p>HKVPASLMVSLGEDAHFQCPHNSSNNANVTWWRVLHGN            YTWPEFLGPGE            DPNGTLIQNVNKS HGGIYVCRVQEGNESYQQSCGYLRVR            QPPRPFLD            MEGTKNRIITAEGIILLFCAVVPGTLLFRKRWQNEKLGLD            AGDEYEDE            NLYEGLNLDDCSMYEDISRGLQGTYQDVGSLNIG</p> <p>Database link: <a href="#">P11912</a></p> <p style="text-align: right;">  <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a> </p>
<b>Positive control</b>	IHC-P: Human stomach tissue. WB: Raji cell lysate; Recombinant human CD79a protein.
<b>General notes</b>	<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 &amp; 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 &amp; species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications &amp; species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications &amp; species from publications and Abreviews that have not been tested in our own</p>

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

<b>Form</b>	Liquid
<b>Storage instructions</b>	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.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol
<b>Purity</b>	Immunogen affinity purified
<b>Purification notes</b>	ab231798 was purified by antigen-specific affinity chromatography followed by Protein A affinity chromatography.
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

Our [Abpromise guarantee](#) covers the use of **ab231798** 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
WB		Use a concentration of 0.2 - 2 µg/ml. Predicted molecular weight: 25 kDa.
IHC-P		Use a concentration of 5 - 20 µg/ml.

## Target

<b>Function</b>	Required in cooperation with CD79B for initiation of the signal transduction cascade activated by binding of antigen to the B-cell antigen receptor complex (BCR) which leads to internalization of the complex, trafficking to late endosomes and antigen presentation. Also required for BCR surface expression and for efficient differentiation of pro- and pre-B-cells. Stimulates SYK autophosphorylation and activation. Binds to BLNK, bringing BLNK into proximity with SYK and allowing SYK to phosphorylate BLNK. Also interacts with and increases activity of some Src-family tyrosine kinases. Represses BCR signaling during development of immature B cells.
<b>Tissue specificity</b>	B-cells.
<b>Involvement in disease</b>	Defects in CD79A are the cause of agammaglobulinemia type 3 (AGM3) [MIM:613501]. 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. Note=Two different mutations, one at the splice

donor site of intron 2 and the other at the splice acceptor site for exon 3, have been identified. Both mutations give rise to a truncated protein.

### Sequence similarities

Contains 1 Ig-like C2-type (immunoglobulin-like) domain.  
Contains 1 ITAM domain.

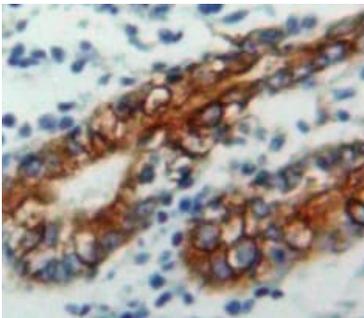
### Post-translational modifications

Phosphorylated on tyrosine, serine and threonine residues upon B-cell activation. Phosphorylation of tyrosine residues by Src-family kinases is an early and essential feature of the BCR signaling cascade. The phosphorylated tyrosines serve as docking sites for SH2-domain containing kinases, leading to their activation which in turn leads to phosphorylation of downstream targets. Phosphorylation of serine and threonine residues may prevent subsequent tyrosine phosphorylation.

### Cellular localization

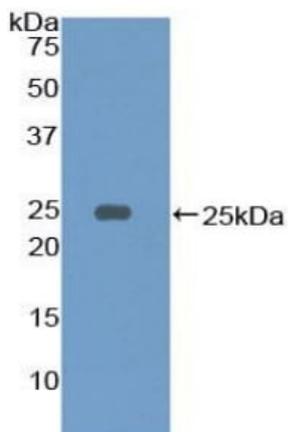
Cell membrane. Following antigen binding, the BCR has been shown to translocate from detergent-soluble regions of the cell membrane to lipid rafts although signal transduction through the complex can also occur outside lipid rafts.

## Images



Formalin-fixed, paraffin-embedded human stomach tissue stained for CD79a using ab231798 at 20 µg/ml in immunohistochemical analysis. DAB staining.

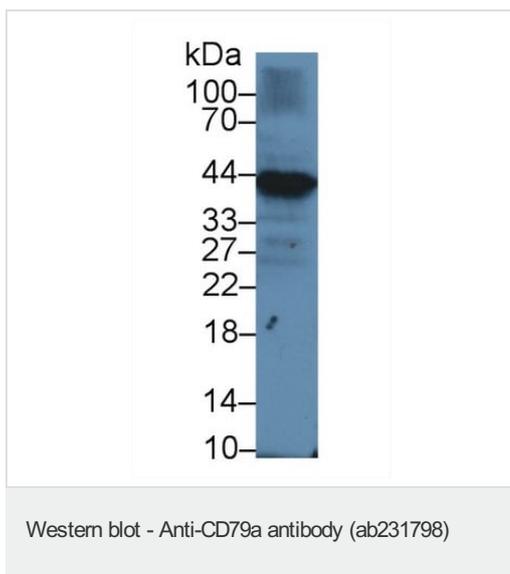
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD79a antibody (ab231798)



Anti-CD79a antibody (ab231798) at 2 µg/ml + Recombinant human CD79a protein

**Predicted band size: 25 kDa**

Western blot - Anti-CD79a antibody (ab231798)



Raji (human Burkitt's lymphoma cell line) cell lysate

**Predicted band size:** 25 kDa

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

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