


Product datasheet

Anti-CD79α antibody, prediluted ab27090

1 Image

Overview

<b>Product name</b>	Anti-CD79a antibody, prediluted
<b>Description</b>	Rabbit polyclonal to CD79a, prediluted
<b>Host species</b>	Rabbit
<b>Specificity</b>	We have data to indicate that this antibody may not cross react with Opossum. However, this has not been conclusively tested and expression levels may vary in certain cell lines/tissues.
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Rabbit, Horse, Chicken, Guinea pig, Cow, Pig 
<b>Immunogen</b>	Synthetic peptide derived from N-terminal region of Human CD79a protein.
<b>Positive control</b>	Human tonsils.

Properties

<b>Form</b>	Prediluted
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C.
<b>Storage buffer</b>	Preservative: 0.1% None Constituents: PBS, BSA
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab27090** 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
IHC-P		1/1. Perform heat mediated antigen retrieval via the pressure cooker method before commencing with IHC staining protocol.

## Target

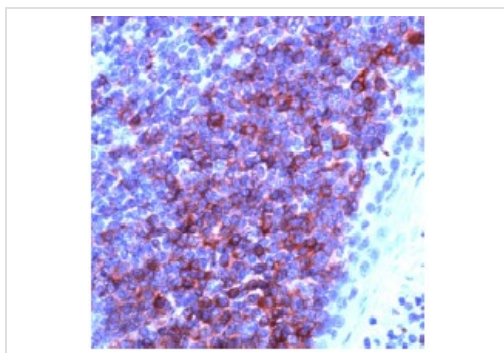
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<b>Function</b>	Required in cooperation with CD79B for initiation of the signal transduction cascade activated by binding of antigen to the B-cell antigen receptor complex (BCR) which leads to internalization of the complex, trafficking to late endosomes 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.
<b>Sequence similarities</b>	Contains 1 Ig-like C2-type (immunoglobulin-like) domain. Contains 1 ITAM domain.
<b>Post-translational modifications</b>	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.
<b>Cellular localization</b>	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.

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## Images

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Human tonsil stained with Anti-CD79a antibody.

Immunohistochemistry (Formalin-fixed paraffin-embedded sections) - CD79a antibody (ab27090)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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