

Product datasheet

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ARG40218 anti-CD79a antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes CD79a

Tested Reactivity Hu, Ms, Rat

Tested Application ICC/IF, IHC-P, WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name CD79a

Species Human

Immunogen Recombinant protein of Human CD79a. (NP_001774.1)

Conjugation Un-conjugated

Alternate Names Surface IgM-associated protein; B-cell antigen receptor complex-associated protein alpha chain;

Membrane-bound immunoglobulin-associated protein; Ig-alpha; MB-1 membrane glycoprotein; MB-1;

IGA; CD antigen CD79a

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:50 - 1:200
	IHC-P	1:50 - 1:200
	WB	1:500 - 1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	Raji	

Properties

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Bioinformation

Gene Symbol CD79A

Gene Full Name CD79a molecule, immunoglobulin-associated alpha

Background CD79a: The B lymphocyte antigen receptor is a multimeric complex that includes the antigen-specific

component, surface immunoglobulin (Ig). Surface Ig non-covalently associates with two other proteins, Ig-alpha and Ig-beta, which are necessary for expression and function of the B-cell antigen receptor. This gene encodes the Ig-alpha protein of the B-cell antigen component. Alternatively spliced transcript

variants encoding different isoforms have been described. [provided by RefSeq, Jul 2008]

Function CD79a is required in cooperation with CD79b for initiation of the signal transduction cascade activated

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

by binding of antigen to the B-cell antigen receptor complex (BCR) which leads to internalization of the

signaling during development of immature B-cells. [UniProt]

Highlight Related products:

CD79a antibodies; Anti-Rabbit IgG secondary antibodies;

Related news:

Tumor-Infiltrating Lymphocytes (TILs)

Calculated Mw 25 kDa

PTM 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. Phosphorylated by LYN. Phosphorylation of serine and threonine residues may prevent subsequent tyrosine phosphorylation.

Arginine methylation in the ITAM domain may interfere with the binding of SYK. It promotes signals

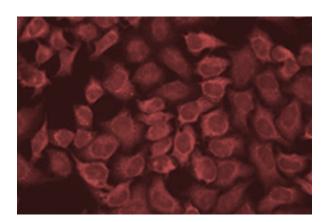
leading to B-cell differentiation (By similarity). [UniProt]

Cellular Localization Cell membrane; Single-pass type I membrane protein. Note=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. [UniProt]

Images



ARG40218 anti-CD79a antibody ICC/IF image

Immunofluorescence: U2OS cells stained with ARG40218 anti-CD79a antibody at 1:100 dilution.



ARG40218 anti-CD79a antibody WB image

Western blot: 25 μg of Raji cell lysate stained with ARG40218 anti-CD79a antibody at 1:1000 dilution.