

ARG66254 anti-CD79a antibody [SQab1743]

Package: 100 µl, 50 µl
Store at: -20°C

Summary

Product Description	Recombinant Rabbit Monoclonal antibody [SQab1743] recognizes CD79a
Tested Reactivity	Hu
Tested Application	FACS, IHC-P, WB
Host	Rabbit
Clonality	Monoclonal
Clone	SQab1743
Isotype	IgG
Target Name	CD79a
Species	Human
Immunogen	Synthetic peptide around the N-terminus of Human CD79a.
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
	FACS	1:800 - 1:2000
	IHC-P	1:6400 - 1:12800
	WB	1:1000 - 1:2000
Application Note	IHC-P: Antigen Retrieval: Boil tissue section in Tris/EDTA buffer (pH 9.0). * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

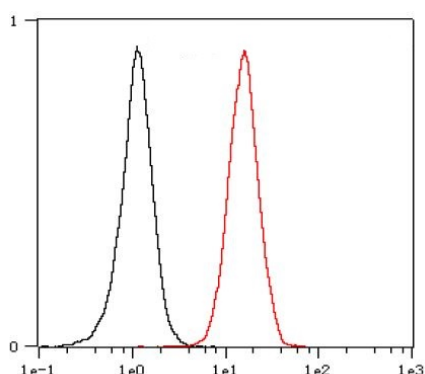
Properties

Form	Liquid
Purification	Purification with Protein A.
Buffer	PBS, 0.01% Sodium azide, 40% Glycerol and 0.05% BSA.
Preservative	0.01% Sodium azide
Stabilizer	40% Glycerol and 0.05% BSA
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

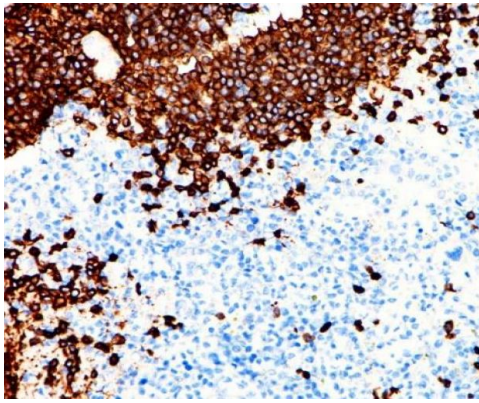
Gene Symbol	CD79A
Gene Full Name	CD79a molecule, immunoglobulin-associated alpha
Background	CD79a: The B lymphocyte antigen receptor is a multimeric complex that includes the antigen-specific component, surface immunoglobulin (Ig). Surface Ig non-covalently associates with two other proteins, Ig-alpha 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 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. [UniProt]
Highlight	<p>Related products: CD79a antibodies; Anti-Rabbit IgG secondary antibodies;</p> <p>Related news: Tumor-Infiltrating Lymphocytes (TILs); MyD88 L265P antibody for lymphoma research;</p>
Calculated Mw	25 kDa
PTM	<p>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.</p> <p>Arginine methylation in the ITAM domain may interfere with the binding of SYK. It promotes signals leading to B-cell differentiation (By similarity). [UniProt]</p>

Images



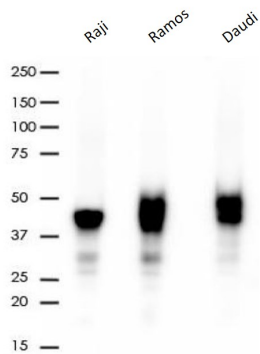
ARG66254 anti-CD79a antibody [SQab1743] FACS image

Flow Cytometry: Ramos cells were fixed with 4% paraformaldehyde (10 min) and then permeabilized with 0.1% TritonX-100 for 15 min. The cells were then stained with ARG66254 anti-CD79a antibody [SQab1743] (red) at 1:2000 dilution in 1x PBS/1% BSA for 30 min at room temperature, followed by Alexa Fluor® 488 labelled secondary antibody. Unlabelled sample (black) was used as a control.



ARG66254 anti-CD79a antibody [SQab1743] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human Tonsil tissue stained with ARG66254 anti-CD79a antibody [SQab1743] at 1:12800. Antigen Retrieval: Boil tissue section in Tris/EDTA buffer (pH 9.0).



ARG66254 anti-CD79a antibody [SQab1743] WB image

Western blot: 10 µg of Raji, Ramos and Daudi cell lysates stained with ARG66254 anti-CD79a antibody [SQab1743] at 1:1000 dilution.