

ARG55943 anti-CD79a antibody [JCB117]

Package: 50 µg
Store at: -20°C

Summary

Product Description	Mouse Monoclonal antibody [JCB117] recognizes CD79a
Tested Reactivity	Hu
Tested Application	FACS, ICC/IF, IHC-P, WB
Host	Mouse
Clonality	Monoclonal
Clone	JCB117
Isotype	IgG1, kappa
Target Name	CD79a
Species	Human
Immunogen	Synthetic peptide around aa. 202-216 of Human CD79a (GTYQDVGSLNIADVQ).
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 - 2 µg/10 ⁶ cells
	ICC/IF	2 - 5 µg/ml
	IHC-P	2 - 5 µg/ml
	WB	1 - 2 µg/ml
Application Note	IHC-P: Antigen Retrieval: Boil tissue section in 10 mM Tris with 1 mM EDTA (pH 9.0) for 10-20 min, followed by cooling at RT for 20 min. * The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	

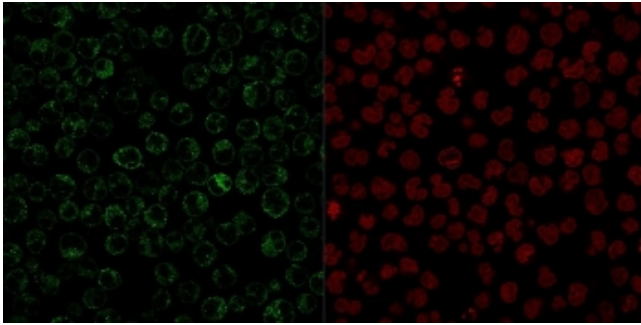
Properties

Form	Liquid
Purification	Purification with Protein G.
Buffer	PBS (pH 7.4), 0.05% Sodium azide and 0.1 mg/ml BSA
Preservative	0.05% Sodium azide
Stabilizer	0.1 mg/ml BSA

Concentration	0.2 mg/ml
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 or below. 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.
Note	For laboratory research only, not for drug, diagnostic or other use.

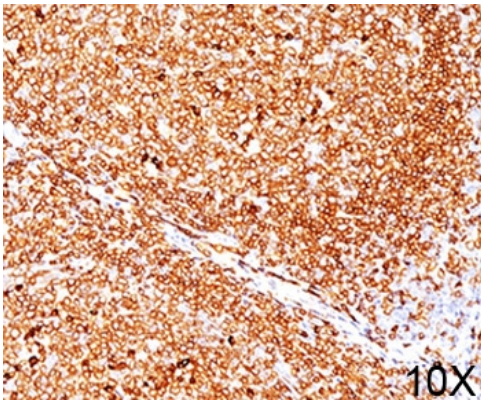
Bioinformation

Database links	GeneID: 973 Human Swiss-port # P11912 Human
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-Mouse IgG secondary antibodies;</p> <p>Related news: Tumor-Infiltrating Lymphocytes (TILs)</p>
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).
Cellular Localization	Cell surface, cytoplasmic



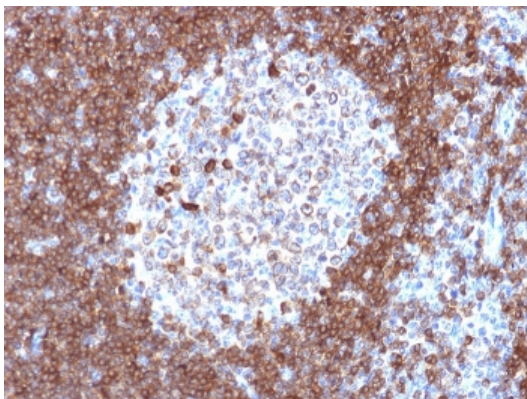
ARG55943 anti-CD79a antibody [JCB117] ICC/IF image

Immunofluorescence: PFA-fixed Raji cells stained with ARG55943 anti-CD79a antibody [JCB117] (green). Reddot (red) for nuclear staining.



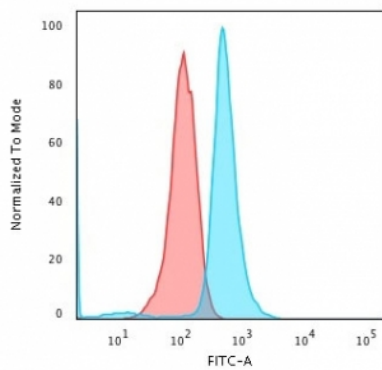
ARG55943 anti-CD79a antibody [JCB117] IHC-P image

Immunohistochemistry: Human tonsil (10X) stained with ARG55943 anti-CD79a antibody [JCB117].



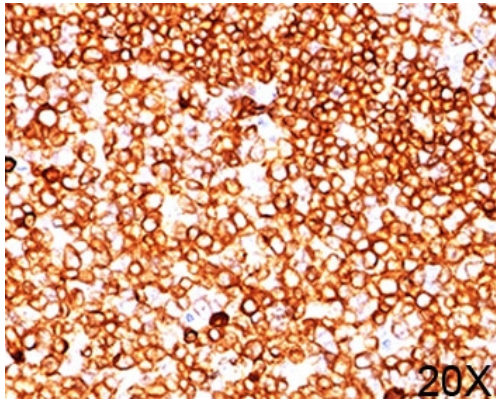
ARG55943 anti-CD79a antibody [JCB117] IHC-P image

Immunohistochemistry: Formalin-fixed and paraffin-embedded Human tonsil tissue. Antigen Retrieval: Boil tissue section in 10 mM Tris with 1 mM EDTA (pH 9.0) for 10-20 min, followed by cooling at RT for 20 min. The tissue section was stained with ARG55943 anti-CD79a antibody [JCB117].



ARG55943 anti-CD79a antibody [JCB117] FACS image

Flow Cytometry: Raji cells stained with ARG55943 anti-CD79a antibody [JCB117] (blue); Isotype control (red).



ARG55943 anti-CD79a antibody [JCB117] IHC-P image

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