CD79a Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CD79a, Monoclonal Antibody
Full Product Name	CD79a (B lymphocyte-specific MB1 Protein, B Cell antigen receptor complex-Associated Protein alpha chain, CD79a Molecule immunoglobulin Associated alpha, Ig-alpha, IGA, IgM-alpha, Immunoglobulin-Associated alpha, Ly54, MB-1 Membrane GlycoProtein, Membrane
Product Gene Name	anti-CD79a antibody
Product Synonym Names	B lymphocyte-specific MB1 Protein; B-cell antigen receptor complex-Associated Protein alpha chain; CD79a Molecule immunoglobulin Associated alpha; Ig-alpha; IGA; IgM-alpha; Immunoglobulin-Associated alpha; Ly54; MB-1 Membrane GlycoProtein; Membrane-bound immunoglobulin-Associated Protein; Surface IgM-Associated Protein
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	SPM549
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight490.
Purity/Purification	Purified by Protein A/G Affinity Chromatography.
Specificity	Recognizes human CD79a.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight490 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	25,038 Da
Chromosome Location	Chromosome: 19; NC_000019.9 (42381190..42385439). Location: 19q13.2
OMIM	112205
3D Structure	ModBase 3D Structure for P11912
Immunogen	A synthetic peptide corresponding to aa202-216 (GTYQDVGSLNIADVQ) of human CD79a protein. Cellular Localization: Cell surface
Conjugate	MaxLight490
Positive Control	Daudi or Ramos cells. Germinal center B-cells in a lymph node or tonsil.
Product Categories/Family for anti-CD79a antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-CD79a antibody	Flow Cytometry (FC/FACS), FLISA, Immunofluorescence (IF), Immunohistochemistry (IHC), Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-CD79a antibody	FC/FACS: 0.5-1ug/million cells IP: 0.5-1ug/500ug protein lysate IF: 0.5-1ug/ml WB: 0.5-1ug/ml IHC: 0.5-1ug/ml for 30 minutes at RT Applications are based on unconjugated antibody.

Related Product Information for anti-CD79a antibody	MBS6204635 is an antibody targeting CD79a. Also known as CD79a (B lymphocyte-specific MB1 Protein, B Cell antigen receptor complex-Associated Protein alpha chain, CD79a Molecule immunoglobulin Associated alpha, Ig-alpha, IGA, IgM-alpha, Immunoglobulin-Associated alpha, Ly54, MB-1 Membrane GlycoProtein, Membrane. Reactive in Human. Host: Mouse.
Product References and Citations for anti-CD79a antibody	1. Mason, DY, et al. 1995. Blood 86: 1453-1459.
Other Notes	Small volumes of anti-CD79a antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD79a. It may not necessarily be applicable to this product.

NCBI GI #	4502685
NCBI GeneID	973
NCBI Accession #	NP_001774.1
UniProt Primary Accession #	P11912
UniProt Secondary Accession #	Q53FB8; A0N775
UniProt Related Accession #	P11912
GenBank Nucleotide #	NM_001783.3
NCBI Official Full Name	B-cell antigen receptor complex-associated protein alpha chain isoform 1
NCBI Official Synonym Full Names	CD79a molecule, immunoglobulin-associated alpha
NCBI Official Symbol	CD79A
NCBI Official Synonym Symbols	IGA; MB-1
UniProt Protein Name	B-cell antigen receptor complex-associated protein alpha chain
UniProt Synonym Protein Names	Ig-alpha; MB-1 membrane glycoprotein; Membrane-bound immunoglobulin-associated protein; Surface IgM-associated protein
Protein Family	B-cell antigen receptor complex-associated protein
UniProt Gene Name	CD79A
UniProt Synonym Gene Names	IGA; MB1
UniProt Entry Name	CD79A_HUMAN
NCBI Protein Information	B-cell antigen receptor complex-associated protein alpha chain; ig-alpha; MB-1 membrane glycoprotein; surface IgM-associated protein; CD79a antigen (immunoglobulin-associated alpha); membrane-bound immunoglobulin-associated protein
NCBI Summary for 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]

UniProt Comments for CD79a	Ig-alpha: an integral membrane protein that associates with surface immunoglobulin B lymphocyte antigen receptor multimeric complex. Surface Ig non-covalently associates with 2 other proteins, Ig-alpha and Ig-beta, which are necessary for expression and function of the B-cell antigen receptor. Two alternatively spliced isoforms have been described. Protein type: Membrane protein, integral; Immunoglobulin superfamily Chromosomal Location of Human Ortholog: 19q13.2 Cellular Component: multivesicular body; integral to membrane; plasma membrane; B cell receptor complex; lipid raft; external side of plasma membrane Molecular Function: transmembrane receptor activity Biological Process: B cell proliferation; B cell receptor signaling pathway; B cell activation; B cell differentiation Disease: Agammaglobulinemia 3, Autosomal Recessive
Research Articles on CD79a	**1.** The effect of chronic alcohol intoxication and smoking on the output of salivary immunoglobulin A (IgA) was studied.
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