CD79B Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CD79B, Polyclonal Antibody
Full Product Name	CD79B, ID (CD79B, B29, IGB, B Cell antigen receptor complex-associated protein beta chain, B Cell-specific glycoprotein B29, Ig-beta, Immunoglobulin-associated B29 protein, CD79b) (MaxLight 650)
Product Gene Name	anti-CD79B antibody
Product Synonym Names	CD79B; B29; IGB; B-cell antigen receptor complex-associated protein beta chain; B-cell-specific glycoprotein B29; Ig-beta; Immunoglobulin-associated B29 protein; CD79b
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
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: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	26,119 Da
OMIM	gene 612692
3D Structure	ModBase 3D Structure for P40259
Immunogen	CD79B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 92-121 amino acids from the Central region of human CD79B.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-CD79B antibody	Antibodies; CD Markers
Applications Tested/Suitable for anti-CD79B antibody	Western Blot (WB), FLISA
Application Notes for anti-CD79B antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CD79B antibody	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-beta protein of the B-cell antigen component. Alternatively spliced transcript variants encoding different isoforms have been described.
Product References and Citations for anti-CD79B antibody	Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010). Davila, S., et al. Genes Immun. 11(3):232-238(2010). Hosgood, H.D. III, et al. Occup Environ Med 66(12):848-853(2009). Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009). Liang, X.S., et al. Br. J. Haematol. 146(4):418-423(2009).

Other Notes	Small volumes of anti-CD79B 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.
Searchable Terms for CD79B purchase	MBS6283497 is an antibody targeting CD79B. Also known as CD79B, ID (CD79B, B29, IGB, B Cell antigen receptor complex-associated protein beta chain, B Cell-specific glycoprotein B29, Ig-beta, Immunoglobulin-associated B29 protein, CD79b) (MaxLight 650). Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD79B. It may not necessarily be applicable to this product.

NCBI GI #	90193592
NCBI GeneID	974
NCBI Accession #	NP_001035022.1
UniProt Primary Accession #	P40259
UniProt Secondary Accession #	Q53FS2; Q9BU06
UniProt Related Accession #	P40259
GenBank Nucleotide #	NM_001039933.1
NCBI Official Full Name	B-cell antigen receptor complex-associated protein beta chain isoform 3
NCBI Official Synonym Full Names	CD79b molecule, immunoglobulin-associated beta
NCBI Official Symbol	CD79B
NCBI Official Synonym Symbols	B29; IGB; AGM6
UniProt Protein Name	B-cell antigen receptor complex-associated protein beta chain
UniProt Synonym Protein Names	B-cell-specific glycoprotein B29; Ig-beta; Immunoglobulin-associated B29 protein; CD_antigen: CD79b
Protein Family	B-cell antigen receptor complex-associated protein
UniProt Gene Name	CD79B
UniProt Synonym Gene Names	B29; IGB
UniProt Entry Name	CD79B_HUMAN
NCBI Protein Information	B-cell antigen receptor complex-associated protein beta chain

UniProt Comments for CD79B	Ig-beta: Required in cooperation with CD79A for initiation of the signal transduction cascade activated by the B-cell antigen receptor complex (BCR) which leads to internalization of the complex, trafficking to late endosomes and antigen presentation. Enhances phosphorylation of CD79A, possibly by recruiting kinases which phosphorylate CD79A or by recruiting proteins which bind to CD79A and protect it from dephosphorylation. Defects in CD79B are the cause of agammaglobulinemia type 6 (AGM6). 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. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Receptor, misc.; Membrane protein, integral Chromosomal Location of Human Ortholog: 17q23 Cellular Component: nucleoplasm; Golgi apparatus; integral to plasma membrane; cytoplasm; plasma membrane; B cell receptor complex; external side of plasma membrane Molecular Function: transmembrane receptor activity Biological Process: B cell receptor signaling pathway; immune response; signal transduction Disease: Agammaglobulinemia 6, Autosomal Recessive
Research Articles on CD79B	**1.** Abberant expression of CD79b in non-B cells caused unwanted reactivity, rendering CD79b unsuitable for T-cell receptor - based immunotherapies.
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