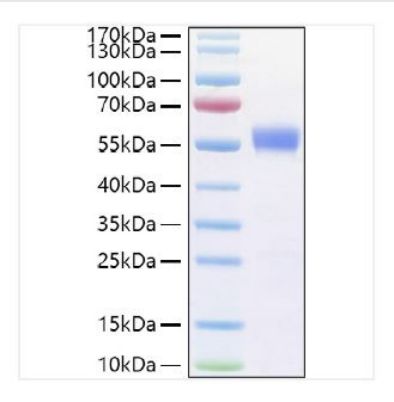
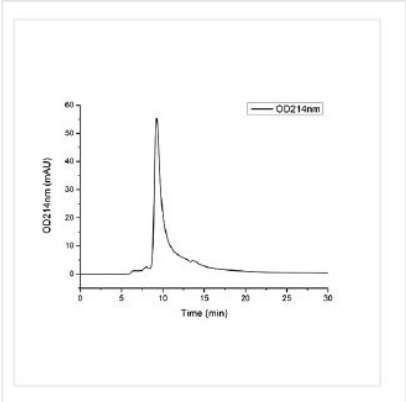
B29/CD79B Recombinant Human Active Protein

PRODUCT OVERVIEW

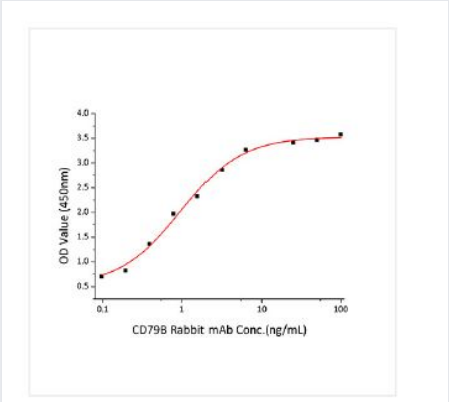
Product Name	B29/CD79B, Active Protein
Full Product Name	Active Recombinant Human B29/CD79B Protein
Product Gene Name	B29/CD79B active protein
Product Synonym Names	AGM6; B29; IGB; CD79B; B29; IGB
Host	HEK293 cells
Form/Format	Liquid Lyophilized from a 0.22 um filtered solution of PBS, pH 7.4.
Purity/Purification	> 95% by SDS-PAGE.
Preparation and Storage	Store the lyophilized protein at -20 to -80 degree C for 12 months. After reconstitution, the protein solution is stable at -20 degree C for 3 months, at 2-8 degree C for up to 1 week. Avoid repeated freeze/thaw cycles. Ship: Ice Pack
Molecular Weight	229
OMIM	gene 612692
3D Structure	ModBase 3D Structure for P40259
Active Protein Note	Protein activity can be an ambiguous term. Please refer to the data sheet or inquire with Technical Support to determine the definition of activity for this product.
Species	Human
Tag	C-hFc
Bioactivity	Measured by its binding ability in a functional ELISA. Immobilized Human CD79B at 2 ug/mL (100 uL/well) can bind Anti-CD79B Humanized Antibody with a linear range of 0.781-1.771 ng/mL.
Product Categories/Family for B29/CD79B active protein	Bio-Markers & CD Antigens; Biosimilar Drug Targets
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for B29/CD79B active protein	Active Recombinant Human B29/CD79B Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala29-Asp159) of human CD79b/B29 (Accession #NP_000617.1) fused with a hFc tag at the C-terminus.
Other Notes	Small volumes of B29/CD79B active protein 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 B29/CD79B purchase	MBS9146677 is an active protein targeting B29/CD79B. Also known as Active Recombinant Human B29/CD79B Protein. Host: HEK293 cells.



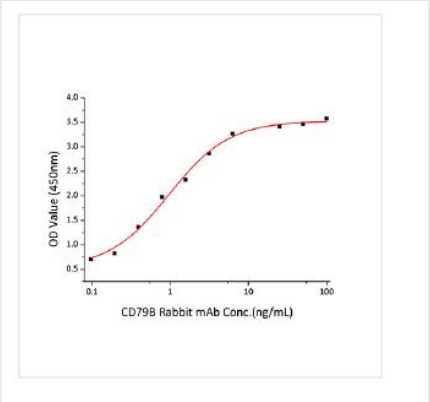
SDS-Page of B29/CD79B active protein
Active Recombinant Human B29/CD79B Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 55-65kDa.



Testing Data of B29/CD79B active protein
The purity of Human CD79b/B29 Protein (#MBS9146677) was greater than 90% as determined by SEC-HPLC.



Testing Data of B29/CD79B active protein
Immobilized Human CD79B(c-hFC) at 2ug/mL (100 uL/well) can bind Anti-CD79B (ARC2548) Humanized Antibody with a linear range of 0.781-1.771 ng/mL.



Testing Data of B29/CD79B active protein
Immobilized recombinant Human CD79B at 0.2 ug/mL (100 uL/well) can bind CD79B Rabbit mAb with a linear range of 0.1-1 ng/mL.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for B29/CD79B. It may not necessarily be applicable to this product.

NCBI GI #	728994
NCBI GeneID	974
NCBI Accession #	P40259.1
UniProt Primary Accession #	P40259
UniProt Secondary Accession #	Q53FS2; Q9BU06
UniProt Related Accession #	P40259
NCBI Official Full Name	B-cell antigen receptor complex-associated protein beta chain
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
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; Ig-beta; B-cell-specific glycoprotein B29; immunoglobulin-associated B29 protein; CD79b antigen (immunoglobulin-associated beta)
NCBI Summary for B29/CD79B	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. [provided by RefSeq, Jul 2008]
UniProt Comments for B29/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 B29/CD79B	**1.** results suggest that MYD88 mutations, and to a lesser extent CD79B mutations, are important drivers of lymphomagenesis in PTL
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