

Recombinant Human B29/CD79B Protein

Catalog No.: RP01381 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	974	P40259

Tags

C-hFc

Synonyms

AGM6; B29; IGB;CD79B;B29;IGB

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE; ≥ 90 % as determined by HPLC.

Calculated MW	Observed MW
41.16 kDa	55-70 kDa

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

B-cell antigen receptor complex-associated protein beta chain (CD79B) is also known as B-cell-specific glycoprotein B29, Ig-beta, Immunoglobulin-associated B29 protein, B29 and IGB, which is a single-pass type I membrane protein containing one Ig-like V-type (immunoglobulin-like) domain and one ITAM domain. CD79b is required in cooperation with CD79A for initiation of the signal transduction cascade activated by the B-cell antigen receptor complex (BCR). CD79b can enhance 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) that 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.

Basic Information

Description

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.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human CD79B at 2 μg/mL (100 μL/well) can bind Anti-CD79B Humanized Antibody with a linear range of 0.781-1.771 ng/mL.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

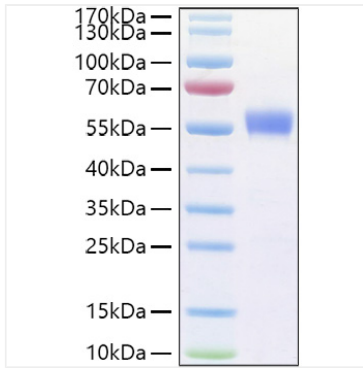
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

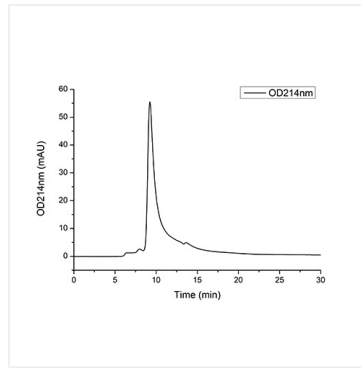
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

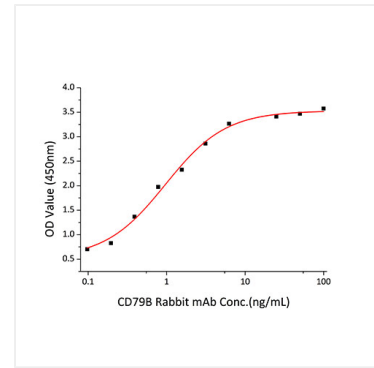
Validation Data



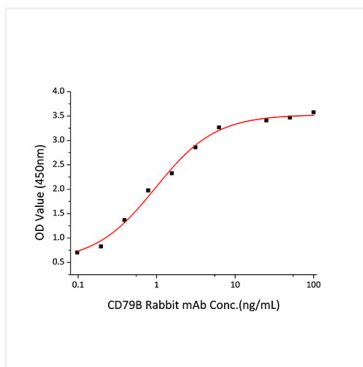
Recombinant Human B29/CD79B Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



The purity of Human CD79b/B29 Protein (Cat.RP01381) was greater than 90% as determined by SEC-HPLC.



Immobilized Human CD79B(c-hFC) at 2μg/mL (100 μL/well) can bind Anti-CD79B (ARC2548) Humanized Antibody with a linear range of 0.781-1.771 ng/mL.



Immobilized recombinant Human CD79B at 0.2 μg/mL (100 μL/well) can bind CD79B Rabbit mAb with a linear range of 0.1-1 ng/mL.