Recombinant Human B29/CD79B Protein

Catalog No.: RP01381

Sequence Information

Species
Human

Gene ID
974

Swiss Prot
P40259

Tags
C-hFc

Synonyms
AGM6, B29, IGB,CD79B,B29,IGB

Product Information

Source
HEK293 cells

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

Calculated MW
41.16 kDa

Observed MW
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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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.

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
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

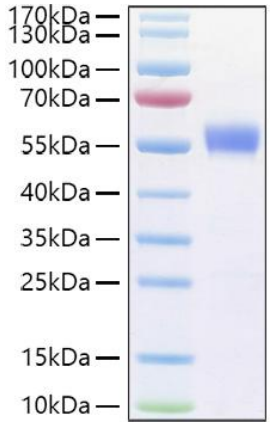
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

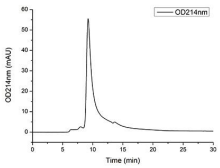
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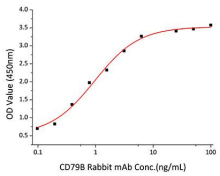
Validation Data



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.

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