

Recombinant Human B29/CD79B Protein

Catalog No.: RP01464 **Recombinant**

Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human | 974 | P40259 |

Tags

C-His

Synonyms

AGM6; B29; IGB; CD79B; B29; IGB

Product Information

| Source | Purification |
|--------------|--------------------|
| HEK293 cells | > 90% by SDS-PAGE. |

| Calculated MW | Observed MW |
|---------------|-------------|
| 16.05 kDa | 25-38 kDa |

Endotoxin

< 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 (Accession #NP_000617.1) fused with a 6xHis tag at the C-terminus.

Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Human CD79B at 0.5 μg/mL (100 μL/well) can bind CD79B Rabbit mAb with a linear range of 0.1-1.2 ng/mL.

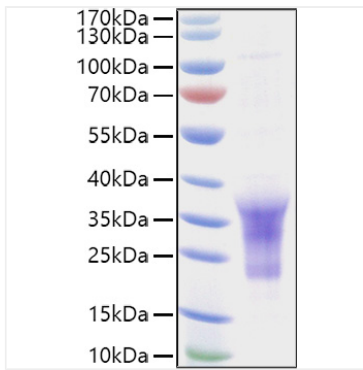
Storage

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

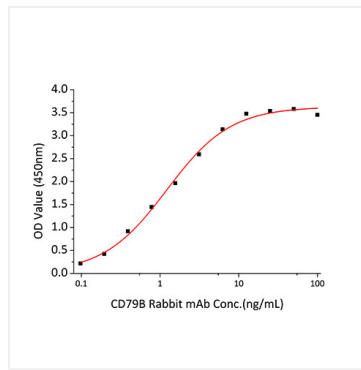
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human B29/CD79B Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 25-38kDa.



Immobilized recombinant Human CD79B at 0.5 $\mu\text{g/mL}$ (100 μL /well) can bind CD79B Rabbit mAb with a linear range of 0.1-1.2 ng/mL.