

# Human CD79B Protein

Cat. No. CD7-HM49B

## Description

<b>Source</b>	Recombinant Human CD79B Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. It contains Ala29-Asp159.
<b>Accession</b>	P40259-1
<b>Molecular Weight</b>	The protein has a predicted MW of 18.1 kDa. Due to glycosylation, the protein migrates to 33-42 kDa based on Tris-Bis PAGE result.
<b>Endotoxin</b>	Less than 1EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

## Formulation and Storage

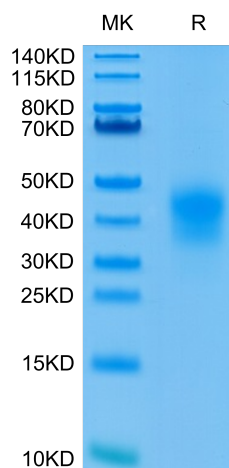
<b>Formulation</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended (usually we use 1mg/ml solution for lyophilization). Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please avoid freeze-thaw cycles.

## Background

CD79B (also known as B29, Ig beta and B cell antigen receptor complex-associated protein beta-chain) is a 36-40 kDa member of the Ig-Superfamily. It is 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.

## Assay Data

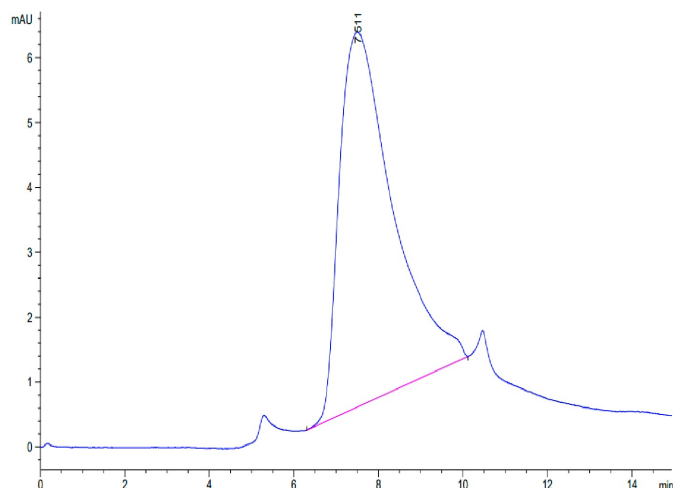
### Tris-Bis PAGE



Human CD79B on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

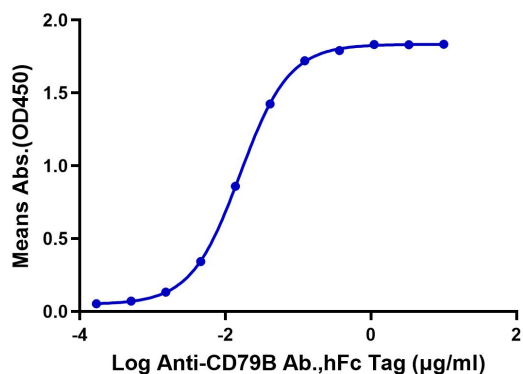
Assay Data



The purity of Human CD79B is greater than 95% as determined by SEC-HPLC.

ELISA Data

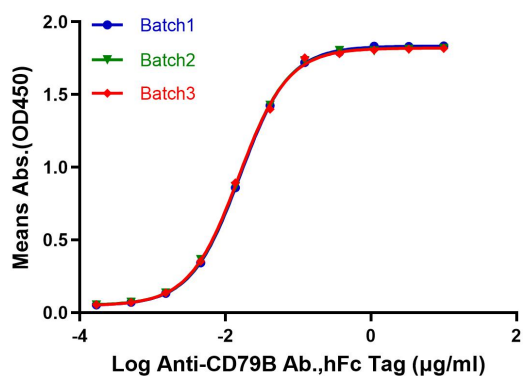
**Human CD79B, His Tag ELISA**  
0.05µg Human CD79B, His Tag Per Well



Immobilized Human CD79B, His Tag at 0.5µg/ml (100µl/Well). Dose response curve for Anti-CD79b Ab., hFc Tag with the EC50 of 15.3ng/ml determined by ELISA.

Batch to Batch Consistency

**Human CD79B, His Tag ELISA**  
0.05µg Human CD79B, His Tag Per Well



Immobilized Human CD79B, His Tag at 0.5µg/ml (100µl/Well). Dose response curve for Anti-CD79B Ab., hFc Tag with the EC50 of 15.9/15.3/15.2ng/ml determined by ELISA.