

# Human CD79B Protein

Cat. No. CD7-HM29B



## Description

<b>Source</b>	Recombinant Human CD79B Protein is expressed from HEK293 with hFc tag at the C-terminus. It contains Ala29-Asp159.
<b>Accession</b>	P40259-1
<b>Molecular Weight</b>	The protein has a predicted MW of 41.9 kDa. Due to glycosylation, the protein migrates to 50-60 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU per µg by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

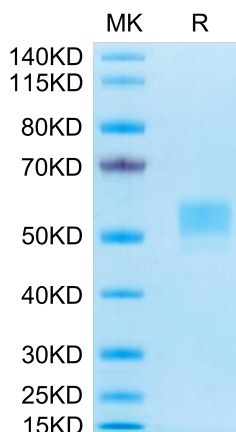
<b>Formulation</b>	Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize 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.

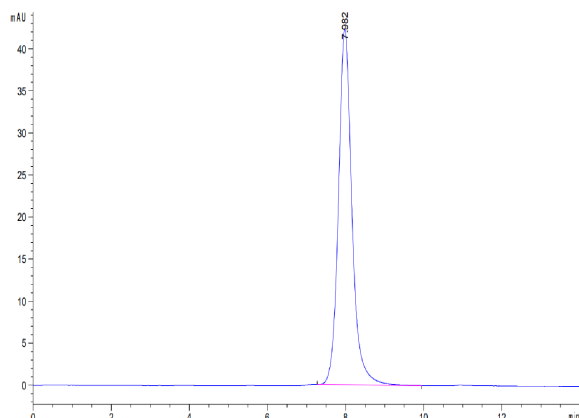
## Assay Data

### Bis-Tris PAGE



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

### SEC-HPLC



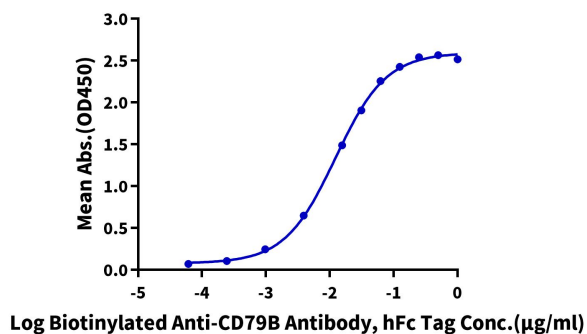
The purity of Human CD79B is greater than 95% as determined by SEC-HPLC.

Assay Data

ELISA Data

**Human CD79B, hFc Tag ELISA**

0.1  $\mu$ g Human CD79B, hFc Tag Per Well



Immobilized Human CD79B, hFc Tag at 1  $\mu$ g/ml (100  $\mu$ l/well) on the plate. Dose response curve for Biotinylated Anti-CD79B Antibody, hFc Tag with the EC50 of 12.3ng/ml determined by ELISA (QC Test).