



## Synonym

CD79A&CD79B, B-cell antigen receptor complex-associated protein alpha chain, B-cell antigen receptor complex-associated protein beta chain

## Source

Human CD79A&CD79B Heterodimer Protein, Mouse IgG2a Fc,Flag Tag&Mouse IgG2a Fc,His Tag(CDB-H52W3) is expressed from human 293 cells (HEK293). It contains AA Leu 33 - Arg 143 (CD79A) & Ala 29 - Asp 159 (CD79B) (Accession # [P11912-1](#) (CD79A) & [P40259-1](#) (CD79B)).

Predicted N-terminus: Leu 33 (CD79A) & Ala 29 (CD79B)

## Molecular Characterization

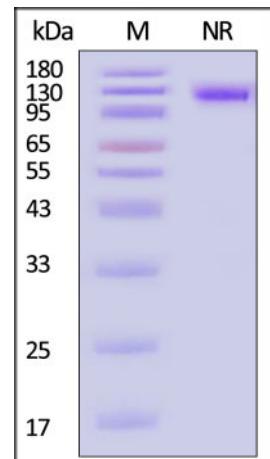
CD79A (Leu 33 - Arg 143) P11912-1	mFc (Glu 98 – Lys 330) P01863	Flag
CD79B (Ala 29 - Asp 159) P40259-1	mFc (Glu 98 – Lys 330) P01863	Poly-his

Human CD79A&CD79B Heterodimer Protein, Mouse IgG2a Fc,Flag Tag&Mouse IgG2a Fc,His Tag is produced by co-expression of CD79A and CD79B, has a calculated MW of 43.8 kDa (CD79A) and 46.7 kDa (CD79B). Subunit CD79A carries a mouse IgG2a Fc fragment at the C-terminus, followed by a flag tag and subunit CD79B carries a mouse IgG2a Fc fragment at the C-terminus, followed by a polyhistidine tag. The protein migrates as 120 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under non-reducing (NR) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 0.1 EU per  $\mu$ g by the LAL method / rFC method.

## SDS-PAGE



Human CD79A&CD79B Heterodimer Protein, Mouse IgG2a Fc,Flag Tag&Mouse IgG2a Fc,His Tag on SDS-PAGE under non-reducing (NR) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95% (With [Star Ribbon Pre-stained Protein Marker](#)).

## Purity

>95% as determined by SDS-PAGE.

## Formulation

Lyophilized from 0.22  $\mu$ m filtered solution in 50 mM Tris, 100 mM Glycine, 25 mM Arginine, 150 mM NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

## Storage

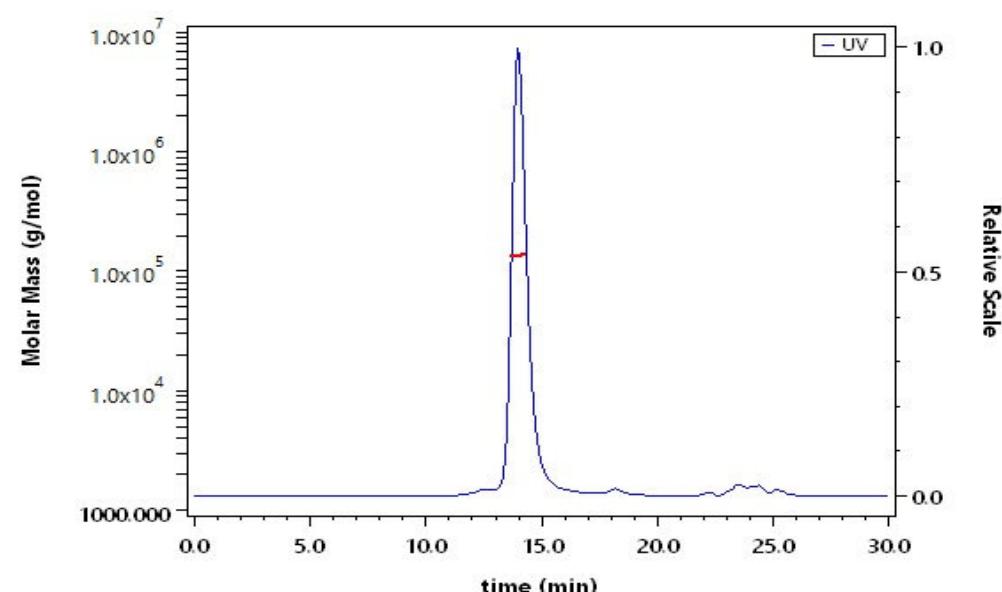
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SEC-MALS



The purity of Human CD79A&CD79B Heterodimer Protein, Mouse IgG2a Fc,Flag Tag&Mouse IgG2a Fc,His Tag (Cat. No. CDB-H52W3) is more than 85% and the molecular weight of this protein is around 110-150 kDa verified by SEC-MALS.

[Report](#)

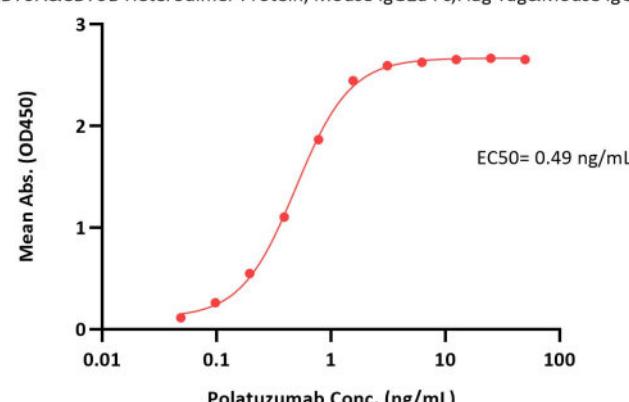
Discounts, Gifts,  
and more!



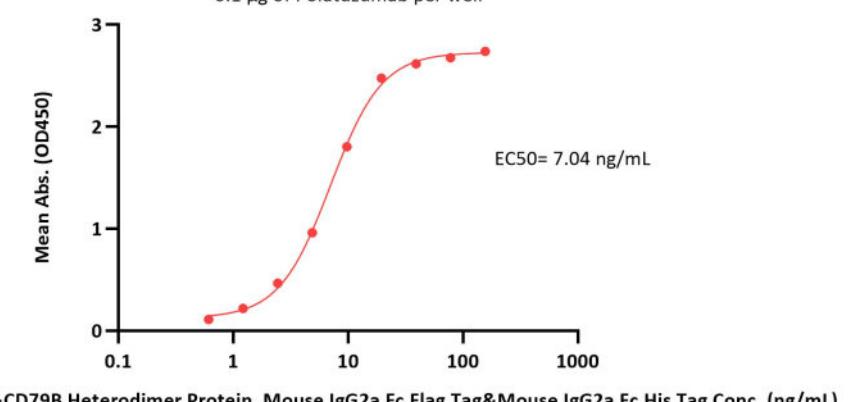


## Bioactivity-ELISA

Human CD79A&CD79B Heterodimer Protein, Mouse IgG2a Fc,Flag Tag&Mouse IgG2a Fc,His Tag ELISA  
0.1 µg of Human CD79A&CD79B Heterodimer Protein, Mouse IgG2a Fc,Flag Tag&Mouse IgG2a Fc,His Tag per well



Human CD79A&CD79B Heterodimer Protein, Mouse IgG2a Fc,Flag Tag&Mouse IgG2a Fc,His Tag ELISA  
0.1 µg of Polatuzumab per well



Immobilized Human CD79A&CD79B Heterodimer Protein, Mouse IgG2a Fc,Flag Tag&Mouse IgG2a Fc,His Tag (Cat. No. CDB-H52W3) at 1 µg/mL (100 µL/well) can bind Polatuzumab with a linear range of 0.1-1 ng/mL (QC tested).

Immobilized Polatuzumab at 1 µg/mL (100 µL/well) can bind Human CD79A&CD79B Heterodimer Protein, Mouse IgG2a Fc,Flag Tag&Mouse IgG2a Fc,His Tag (Cat. No. CDB-H52W3) with a linear range of 1-20 ng/mL (Routinely tested).

## Background

CD79a and CD79b heterodimers are the important signaling components of B cell receptor (BCR) complex which plays a crucial role in B cell development and antibody production. BCR complexes are composed of a ligand-binding receptor (membrane immunoglobulin; mIg), non-covalently associated with the signaling component, a disulfide-linked heterodimer of CD79a (Ig $\alpha$ ) and CD79b (Ig $\beta$ ). Both CD79 subunits consist of an Ig-like domain, a transmembrane (TM) region, and a longer cytoplasmic tail (CYT) containing an immune-receptor tyrosine-based activation motif (ITAM).

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