

Human CD79A&CD79B Heterodimer Protein, Mouse IgG2a Fc,Flag Tag&Mouse IgG2a Fc,His Tag (MALS verified)

Catalog # CDB-H52W3



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 µg by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm 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

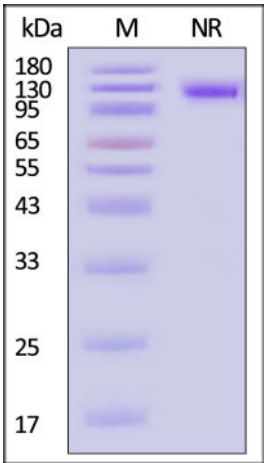
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

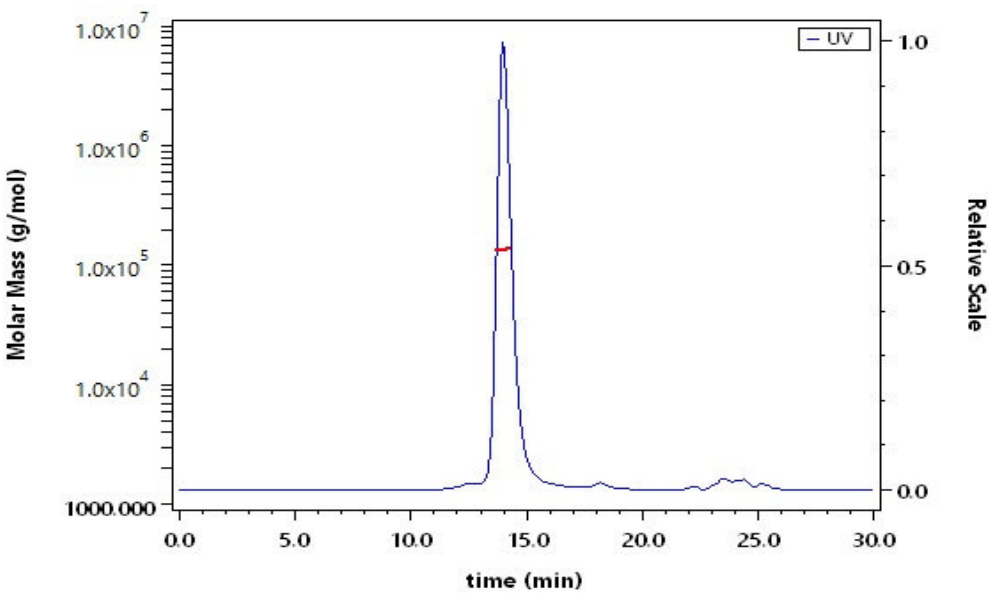
- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

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](#)).

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](#)

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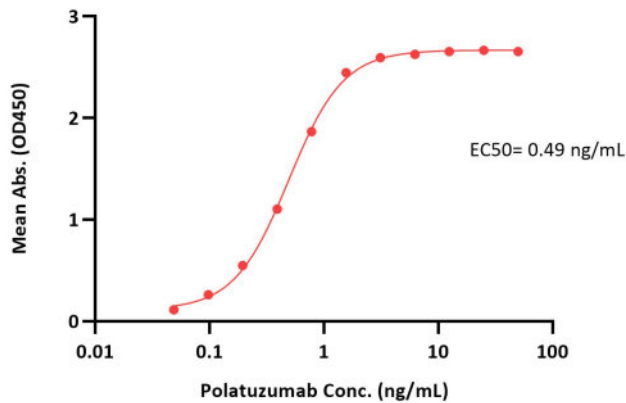
Human CD79A&CD79B Heterodimer Protein, Mouse IgG2a Fc,Flag Tag&Mouse IgG2a Fc,His Tag (MALS verified)

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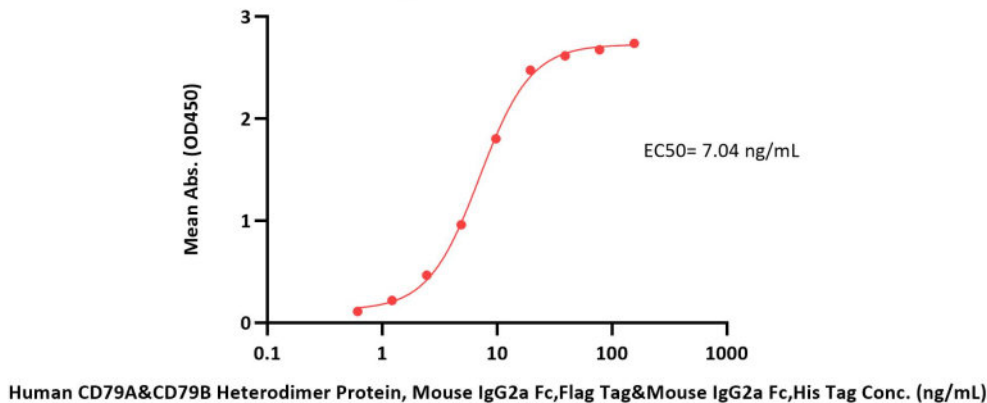
Bioactivity-ELISA

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



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).

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



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 (Igα) and CD79b (Igβ). 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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