

**Source**

Biotinylated Mouse IgG2b Antibody Isotype Control is a Mouse monoclonal antibody recombinantly expressed from HEK293 cells.

Species

Mouse

Isotype

Mouse IgG2b | Mouse kappa

Conjugate

Biotin

Antibody Type

Recombinant Monoclonal

Specificity

Specifically reacts with DNP (Dinitrophenyl) and DNP conjugated proteins.

Application

Application	Recommended Usage
ELISA	0.3-150 ng/mL

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Purification

Protein A purified / Protein G purified

Formulation

Lyophilized from 0.22 μ m filtered solution in PBS, pH7.4 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.

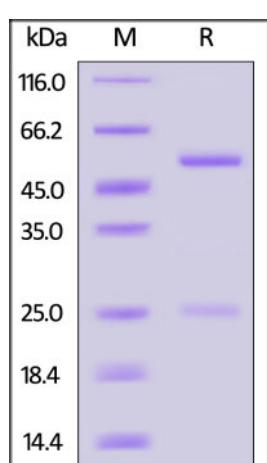
Storage

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

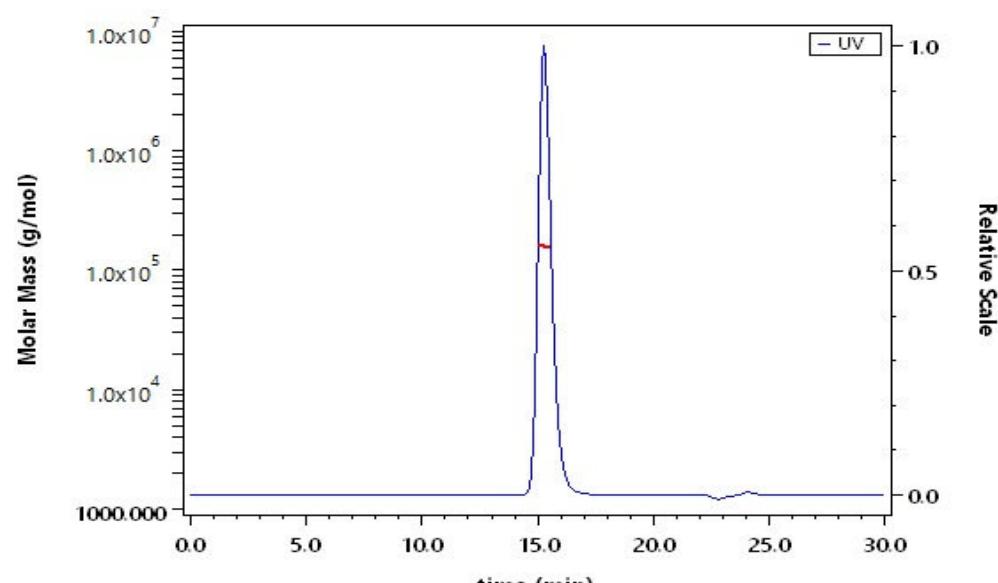
Please avoid repeated freeze-thaw cycles.

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

Biotinylated Mouse IgG2b Antibody Isotype Control on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS

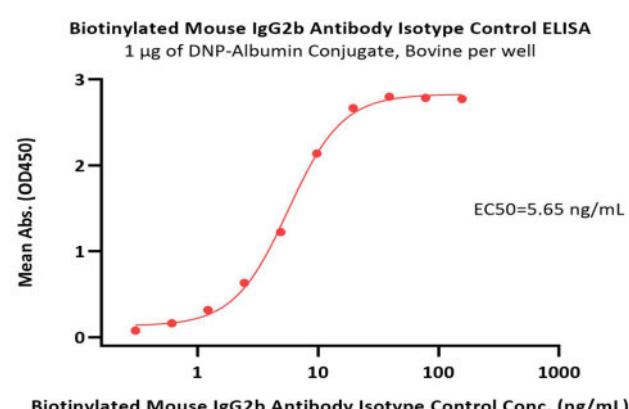
The purity of Biotinylated Mouse IgG2b Antibody Isotype Control (Cat. No. DNP-BLM486) is more than 95% and the molecular weight of this protein is around 145-165 kDa verified by SEC-MALS.

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**Bioactivity-ELISA**

Immobilized DNP-Albumin Conjugate, Bovine at 10 µg/mL (100 µL/well) can bind Biotinylated Mouse IgG2b Antibody Isotype Control (Cat. No. DNP-BLM486) with a linear range of 0.3-10 ng/mL (QC tested).

Background

A hapten is a small molecule that can elicit an immune response only when conjugated with a large carrier such as a protein. Typical haptens include drugs, urushiol, quinone, steroids, etc. Peptides and non-protein antigens usually need conjugating to a carrier protein (such as BSA (bovine serum albumin) or KLH (keyhole limpet hemocyanin) to become good immunogens). Additionally, haptens should be administered with an adjuvant to ensure a high quality immune response. It is important that the hapten design (preserving greatly the chemical structure and spatial conformation of target compound), selection of the appropriate carrier protein and the conjugation method are key conditions for the desired specificity anti-hapten antibodies. We design anti-hapten antibodies based on the HaptenDB information.

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