Monoclonal Anti-DNP antibody, Human IgG1 Isotype Control

Catalog # AMS.DNP-M2-100ug; -1mg

For Research Use Only, Not For Use In Diagnostic Or Therapeutic Procedures

Basic Information:

Species Reactivity	Human
Host Cells	HEK293 cells
MW	50 kDa and 25 kDa for the heavy and light chains, respectively (150 kDa)
Isotype	Human IgG1, Kappa LC
Clonality	Monoclonal

Description:

Dinitrophenyl (DNP) is a hapten that is not normally expressed in the target tissue. Therefore, anti-DNP antibody has no relevant specificity to a target antigen, and can be used as an isotype control antibody to differentiate non-specific background signal from specific antibody signal in various in vitro and in vivo studies. Monoclonal Anti-DNP (Anti-Hapten) antibody, Human IgG1 Isotype Control was purified from HEK293 cell culture, and specifically reacts with DNP (Dinitrophenyl) and DNP conjugated proteins.

Purification:

Protein A affinity chromatography from HEK293 culture supernatants.

Format:

Lyophilized powder

Application:

This antibody is suitable for use as a non-targeting isotype control in various in vitro and in vivo studies. It can also be used as a negative control in various applications such as ELISA, Western blot, immunofluorescence, immunohistochemistry, immunoprecipitation, and flow cytometry. Each laboratory should determine an optimum working titer for use in its particular application.

Formulation:

Lyophilized from 0.22 μm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5. Normally mannitol or trehalose are added as protectants before lyophilization.

Reconstitution:

See Certificate of Analysis for reconstitution instructions and specific concentrations.

Storage:

Avoid freeze-thaw cycles.
This product is stable after storage at:

4 ℃ for 1 year in lyophilized state.
-70 ℃ for 3 months under sterile conditions after reconstitution.

Quality Assurance:

Binding of monoclonal Anti-DNP antibody, Human IgG1 to immobilized DNP-BSA conjugate in a functional ELISA assay.

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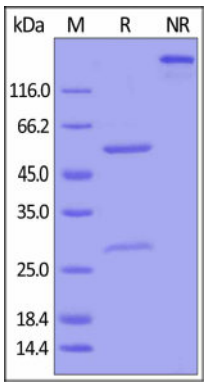
SDS-PAGE Data:



Related Products:

Product Name	Catalog	Format	Size
Monoclonal Anti-DNP antibody, Human IgG1 (N279A) Isotype Control	AMS.DNP-MB273	Lyophilized Powder	100ug, 1mg
Monoclonal Anti-DNP antibody, Human IgG4 Isotype Control	AMS.DNP-M3	Lyophilized Powder	100ug, 1mg
Monoclonal Anti-DNP antibody, Mouse IgG1 Isotype Control	AMS.DNP-M1	Lyophilized Powder	100ug, 1mg

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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