

YR0271

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In vivo Grade Recombinant Anti-DNP Rat IgG2a Isotype Control Antibody

Catalog No.: YR0271

Basic Information

Molecular Weight

150 kDa

Endotoxin

<1EU/mg (<0.001EU/μg) Determined by LAL gel clotting assay

Sterility

0.2 μm filtration

Aggregation

<5% Determined by SECP

Purity

>95% Determined by SDS-PAGE

Background

Because Dinitrophenyl (DNP) is a hapten and not found endogenously in animal and plant tissues, the anti-DNP monoclonal antibody in nature is suitable for use as an isotype-matched control antibody to estimate the degree of non-specific binding by an antigen-specific antibody. The recombinant mouse IgG1 kappa isotype control (clone number: DNP.m1) and mutants (natural and engineered mIgG1 isotype controls) are useful for in vitro and in vivo studies from ELISA, Western blot (WB), to cell-based assay to animal model study. The isotypes of mouse IgG antibody reagents used in scientific research and clinical diagnostics are mainly mouse IgG1 kappa. Mouse IgG1 antibodies and engineered mutants are also used in therapeutic drug discovery. Mouse IgG1 antibodies are more like human IgG4 antibodies than human IgG1 antibodies, which behave more like mouse IgG2a or IgG2c antibodies. Many antibody drugs especially those targeting immune checkpoint proteins use the human IgG4 constant regions. As an ideal recombinant mouse IgG1 isotype control, the recombinant anti-DNP mIgG1 kappa isotype control has low or no specific binding to any mouse sample, and has completely mouse variable regions and the mouse IgG1 kappa constant regions. The anti-DNP mouse IgG1 kappa isotype control and mutants can be used in ELISA, WB, IHC, the cell-based assay or animal model as the antibody negative control.

Reported Applications

an isotype-matched negative control used in ELISA, Western Blot (WB), Flow Cytometry (Flow), Immunoprecipitation (IP), Immunohistochemistry (Paraffin) (IHC (P)), Immunohistochemistry (Frozen) (IHC (F)), and in vivo animal model research

Immunogen Information

Clone

DNP.r2a.

Isotype

Immunogen

DNP

Recommended Isotype Control(s)

Recommended Dilution Buffer

1×PBS

Product Information

Contact



www.abclonal.com

Production

Purified from cell culture supernatant in an animal-free facility

Purification

Protein A or G purification

Storage

Store at 2 - 8°C. 2 - 8°C for up to 4 weeks and -80°C for long term storage (Avoid repeated freezing and thawing)