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In Vivo Grade Recombinant Rat IgG1 Isotype Control Antibody

Catalog No.: YR0202

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

Rat IgG antibodies are classified to four subclasses mainly based on the isotype of the heavy chain (IgG1, IgG2a, IgG2b, and IgG2c for the heavy chain; kappa and lamda for the light chain), of which IgG2b and IgG2a, and kappa are the most abundantnamed in serum. IgG antibodies are large molecules of about 150 kDa composed of four peptide chains, two identical heavy chains of about 50 kDa and two identical light chains of about 25 kDa. The four peptides are arranged in a Y-shape tetramer by disulfide bonds formed between the two heavy chains and between a heavy chain and a light chain.

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
12B9

Isotype
Rat IgG1 kappa

Immunogen

RecommendedIsotype Control(s)

Recommended Dilution Buffer
1×PBS

Contact

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Product Information

Production
Purified from cell culture supernatant in an animal-free facility

Purification
Protein A or G purification

Storage
Store at -20℃