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Recombinant Rat IgG1 Isotype Control Antibody

Catalog No.: YR1018

Basic Information

Molecular Weight

Endotoxin

Sterility
0.2 μm filtration

Aggregation
<5% Determined by SECP

Purity
>95% Determined by SDS-PAGE

Background

The recombinant anti-HEL rat IgG1 isotype control antibody binds to neither human nor mouse samples. Recombinant rat IgG isotype control antibodies help minimize non-specific binding of primary and capture antibodies by blocking interactions between antibody Fc fragments and Fc receptors, and preventing non-specific antibody binding to cellular proteins, carbohydrates, and lipids. Normal rat serum and purified rat IgGs from normal rat serum are commonly used as non-specific passive blocking solution for antibody-based immuno-assays. Recombinant rat IgG antibody mixes, as a direct alternative to normal rat serum and even rat IgGs purified from rat serum or a non-specific passive blocking solution, can be used to eliminate interfering antibodies from immuno-assay systems using capture and detection antibodies. There is higher percentage of rat IgG1 or IgG2b in serum from different strains of rats. Features of recombinant rat IgG isotype control antibodies compared with normal rat serum and serum-derived rat IgGs: 1) Animal free production. CHO cells rather than rats are used in antibody production. 2) Lot-to-lot consistency. CHO cells which are used for antibody drug manufacturing are used to manufacture the rat IgG isotype control antibodies in the antibody mixes. All production is under control and predictable. 3) As a targeted or passive antibody blocker to interfering antibodies and no binding to human tissues. In contrast, some serum-derived rat IgGs may bind to unknown targets in some human tissues. Recombinant rat IgG isotype control antibodies are the best normal rat serum alternative as blocking reagents, and serum-derived rat IgGs alternative.

Reported Applications

ELISA,flow cytometry,immunoblotting,immunoprecipitation,immunocytochemistry,immunofluorescence,and isotype controls.

Immunogen Information

Clone
HyHEL-10

Isotype
Rat IgG1

Immunogen

RecommendedIsotype Control(s)

Recommended Dilution Buffer
1×PBS

Contact

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Product Information

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

Purification
Protein A/G

Storage
Store at -20℃