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Recombinant Human IgG1 Isotype Control Antibody

Catalog No.: YR1022

Basic Information

Molecular Weight

Endotoxin

Sterility
0.2 μm filtration

Aggregation
<5% Determined by SECP

Purity
>95% Determined by SDS-PAGE

Reported Applications

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

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Background

The recombinant anti-HEL human IgG1 isotype control antibody binds to neither human nor mouse samples. Recombinant human 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 human serum and purified human IgGs from normal human serum are commonly used as non-specific passive blocking solution for antibody-based immuno-assays. Recombinant human IgG antibody mixes, as a direct alternative to normal human serum and even human IgGs purified from human 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 human IgG1 in normal human serum. Features of recombinant human IgG isotype control antibodies compared with normal human serum and serum-derived human IgGs: 1) Animal free production. CHO cells rather than human are used in antibody production. 2) Lot-to-lot consistency. CHO cells which are used for antibody drug manufacturing are used to manufacture the human 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 human IgGs may bind to unknown targets in some human tissues. 4) Adjustable percentages of the recombinant human IgG isotype control antibodies in the recombinant human IgG antibody mixes. A customized recombinant human IgG antibody mix with different percentages of human IgG1, IgG2, IgG3, and IgG4 isotype control antibodies can be easily made according to customers' applications. Recombinant human IgG isotype control antibodies are the best normal human serum alternative as blocking reagents, and serum-derived human IgGs alternative.

Immunogen Information

Clone
HyHEL-10

Isotype
Human IgG1

Immunogen

RecommendedIsotype Control(s)

Recommended Dilution Buffer
1×PBS

Product Information

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

Purification
Protein A/G

Storage

Store at -20°C