Recombinant Mouse IgE Protein

Catalog No.: RPT0013

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Sequence Information

Species
Mouse

Gene ID
380792

Swiss Prot
P06336

Tags
C-His

Synonyms
IgE,Ig epsilon chain C region, Immunoglobulin heavy constant epsilon

Product Information

Source
HEK293 cells

Purification
≥ 95% as determined by SDS-PAGE.

Calculated MW
38.99 kDa

Observed MW
45-75 kDa

Endotoxin
< 0.1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

As one of the five designated immunoglobulin isotypes, immunoglobulin E (IgE) plays a major role in atopic conditions by inducing immediate hypersensitivity reactions. IgE also contributes significantly to the body's immune response to parasitic infections. IgE antibodies are predominantly found in the tissues, firmly attached to effector cells, such as mast cells and basophils, by high-affinity IgE Fc receptor (Fc epsilon RI) and low-affinity IgE receptor (Fc epsilon RII).

Basic Information

Description
Recombinant Mouse IgE Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Pro50-Lys388) of mouse IgE (Accession #) fused with and 6×His tag at the C-terminus.

Activity
Measured by its binding ability in a functional ELISA. Immobilized Mouse IgE (Catalog: RPT0013) at 1 μg/mL (100 μL/well) can bind Mouse IgE Rabbit mAb (Catalog: A23195) with a linear range of 0.06-0.45 ng/mL.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

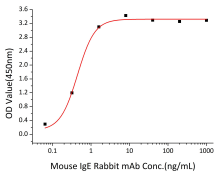
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

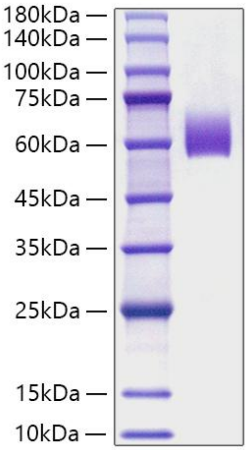
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Validation Data



Immobilized Mouse IgE (Catalog: RPT0013) at 1 μg/mL (100 μL/well) can bind Mouse IgE Rabbit mAb(Catalog: A23195) with a linear range of 0.06-0.45 ng/mL.



Recombinant Mouse IgE Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.