Recombinant Mouse Fc-gamma RIII/CD16 Protein

Catalog No.: RP00761

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Sequence Information

Species
Mouse

Gene ID
14131

Swiss Prot
P08508

Tags
C-His

Synonyms
Low affinity immunoglobulin gamma Fc region receptor III; Fcgr3; Fc gamma Receptor III; CD-antigen 16; CD16; FcRIII; IgG Fc receptor III

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
22 kDa

Observed MW
35-40 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Lyophilized from a 0.2 μm filtered solution of PBS, pH7.4.Contact us for customized product form or formulation.

Reconstitution
Centrifuge the tube 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

Low affinity immunoglobulin gamma Fc region receptor III (Fc gamma RIII /CD16) is a member of the Igsuperfamily. Based on close relationships in their extracellular domains, the Fc gamma Rs have been dividedinto three classes composing of Fc gamma RI (CD64), Fc gamma RII (CD32), and Fc gamma RIII (CD16). Eachgroup may be encoded by multiple genes and exist in different isoforms depending on species and cell type.Mouse CD16 is a type I transmembrane protein having two extracellular Ig-like domains consisting ofimmunoglobulin domain, repeat, signa and transmembrane, transmembrane helix. It is expressed on a varietyof myeloid and lymphoid cells and associates with Fc R gamma to deliver an activating signal upon ligandbinding. Fcgr3 is IgG binding and activation or inhibition of immune responses such as antibody-dependentcellular cytotoxicity, phagocytosis, cell surface receptor signaling pathway and positive regulation of typeI/IIa/III hypersensitivity.

Basic Information

Description
Recombinant Mouse Fc-gamma RIII/CD16 Protein is produced by Human cells expression system. The target protein is expressed with sequence (Ala31-Thr215) of mouse Fc γ RIIIA/FCGR3/CD16 (Accession #P08508) fused with a 6×His tag at the C-terminus.

Activity

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℃

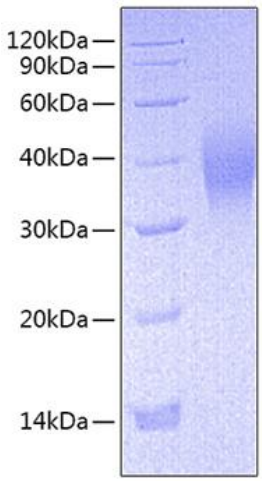
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

400-999-6126
cn.market@abclonal.com.cn
www.abclonal.com.cn

For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



Recombinant Mouse Fc-gamma RIII/CD16 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.