Recombinant Human FCAR/CD89 Protein

Catalog No.: RP00113

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Sequence Information

Species
Human

Gene ID
2204

Swiss Prot
P24071

Tags
C-hFc&His

Synonyms
FCAR,CD89,CTB-61M7.2,FcalphaRI

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
50.27 kDa

Observed MW
65-75 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.Contact us for customized product form or formulation.

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

This protein is a member of the immunoglobulin gene superfamily and receptor for the Fc region of IgA. The receptor is a transmembrane glycoprotein present on the surface of myeloid lineage cells such as neutrophils, monocytes, macrophages, and eosinophils, where it mediates immunologic responses to pathogens. It interacts with IgA-opsonized targets and triggers several immunologic defense processes, including phagocytosis, antibody-dependent cell-mediated cytotoxicity, and stimulation of the release of inflammatory mediators. Multiple alternatively spliced transcript variants encoding different isoforms have been described for this gene.

Basic Information

Description
Recombinant Human FCAR/CD89 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Gln22-Asn227) of human CD89/FCAR (Accession #NP_001991.1) fused with an Fc, 6×His tag at the C-terminus.

Activity
Measured by its binding ability in a functional ELISA. Immobilized Human IGHA1 (Catalog: RPT0023) at 5 μg/mL (100 μL/well) can bind Human CD89 /FCAR (Catalog: RP00113) with a linear range of 0.01-7.4 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℃

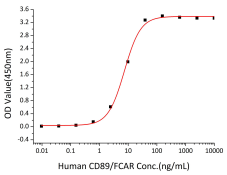
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

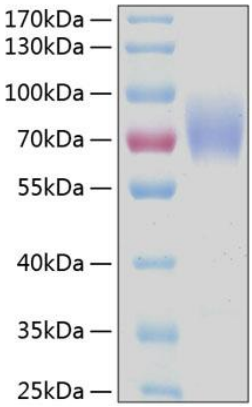
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Validation Data



Immobilized Human IGHA1 (Catalog: RPT0023) at 5 μg/mL (100 μL/well) can bind Human CD89/FCAR (Catalog: RP00113) with a linear range of 0.01-7.4 ng/mL.



Recombinant Human FCAR/CD89 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.