

Recombinant Human FCRL2/FCRH2 /IRTA4 Protein

Catalog No.: RP01984 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	79368	Q96LA5

Tags

C-6His

Synonyms

FCRL2; FCRH2; IFGP4; IRTA4; SPAP1; UNQ9236/PRO31998; Fc receptor-like protein 2; FcR-like protein 2; FcRL2; Fc receptor homolog 2; FcRH2; IFGP family protein 4; Immunoglobulin receptor translocation-associated protein 4; SH2 domain-containing phosphatase anchor protein 1; CD307b

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Calculated MW	Observed MW
41.89 KDa	60-75 kDa

Endotoxin

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

Formulation

Lyophilized from a 0.2 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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

FCRL2/FCRH2 /IRTA4, belongs to the family of glycoprotein homologs of classical immunoglobulin (Ig) Fc receptors. In human, the type I transmembrane FCRL protein family contains from three to nine immunoglobulin-like domains. Mature human FcRH2 consists of a 382 amino acid (aa) extracellular domain (ECD) with four Ig-like C2-set domains, a 21 aa transmembrane segment, and an 86 aa cytoplasmic domain with one ITAM-like, and two ITIM-like motifs. Alternate splicing of human FCRL2 may generate isoforms with N-terminal, internal, or C-terminal deletions. The gene for FcRH2 maps to the human Iq21-23 locus which is a hotspot for chromosomal translocation events associated with B cell malignancies. Although there are several Fc receptor-like genes in the mouse, none of these is a clear ortholog to human FCRL2. FCRL proteins are differentially expressed among B cells. FCRL2 is preferentially expressed on naïve and CD27+ memory B cells within the spleen, lymph nodes, tonsils, and peripheral blood. It is also expressed on most B cells in B cell chronic lymphocytic leukemia (B-CLL) patients. FCRL2 upregulation is associated with mutation of the immunoglobulin heavy chain variable (IGHV) and less aggressive forms of B-CLL.

Basic Information

Description

Recombinant Human FCRL2/FCRH2 /IRTA4 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu20-Asp395) of Human FCRL2/FCRH2 /IRTA4 (Accession #NP_110391.2) fused with His at the C-terminus.

Bio-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°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Avoid repeated freeze/thaw cycles.

Operational Notes

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

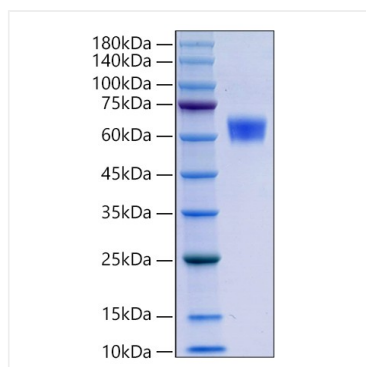
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Validation Data



Recombinant Human FCRL2/FCRH2 /IRTA4
Protein was determined by SDS-PAGE under
reducing conditions with Coomassie Blue.