

Human FCRL1 / FCRH1 Protein (His Tag)

Catalog Number: 11536-H08H



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Biological Solution Specialist

General Information

Gene Name Synonym:

CD307a; FCRH1; IFGP1; IRTA5; A230020G22Rik; Bxmas1; Bxmh1; Bxmh1b; Fcrh1; Fcrh1l; Fcrh1s; Ifgp1

Protein Construction:

A DNA sequence encoding the human FCRL1 (NP_001890.1) extracellular domain (Met 1-Asn 303) was fused with a polyhistidine tag at the C-terminus.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 98 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Ala 17

Molecular Mass:

The secreted recombinant human FCRL1 consists of 298 amino acids and has a calculated molecular mass of 32.6 kDa. It migrates as an approximately 45 kDa band in SDS-PAGE under reducing conditions due to glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4, 1mM EDTA

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

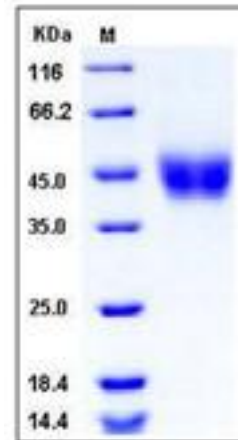
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Fc receptor-like protein 1, also known as FcR-like protein 1, Fc receptor homolog 1, IFGP family protein 1, Immune receptor translocation-associated protein 5 and FCRL1, is a single-pass type I membrane protein which contains three Ig-like C2-type (immunoglobulin-like) domains. It is a cell-surface membrane protein belonging to FCRL family and is preferentially expressed on B cells. FCRL1 is primarily expressed in secondary lymphoid tissues by mature subsets of B cells. It is detected in spleen, lymph node, heart, skeletal muscle, kidney, liver and placenta. FCRL1 is specifically expressed by mature B lineage cells with higher expression in naive versus memory B cells (at protein level). Human Fc receptor-like molecules (FCRL1, FCRL2, FCRL3, FCRL4, FCRL5) have tyrosine-based immunoregulatory potential and are expressed by B-lineage subpopulations. FCRL1 may function as an activating coreceptor in B cells. It may also function in B cells activation and differentiation.

References

1. Du X. et al., 2008, Blood. 111 (1): 338-43.
2. Kazemi T. et al., 2008, Int J Cancer. 123 (9): 2113-9.
3. Baranov K. et al., 2008, J Immunol Methods. 332 (1-2): 73-81.

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