Recombinant Human KLRG1/CLEC15A/CD369 Protein

Catalog No.: RP01521

Sequence Information

Species	Gene ID
Human	10219
Swiss Prot	**Tags**
Q96E93	N-Rabbit Fc

Synonyms
2F1,MAFA,MAFA-L,CLEC15A, MAFA-2F1,MAFA-LIKE,KLRG1

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.
Calculated MW	**Observed MW**
41.11 kDa	50-70 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

KLRG1 (killer cell lectin?like receptor G1), also called MAFA (mast cell function associated), is an inhibitory type II transmembrane glycoprotein of the C-type lectin family, designated CLEC15A.Within the ECD, Human KLRG1 shares 57% and 80% aa sequence identity with mouse and rat KLRG1, respectively.KLRG1 is expressed on subpopulations of CD8+, CD4+, regulatory, and gamma/delta T cells as well as on NK cells. KLRG1 is expressed on T cells found in cord blood, but it is down-regulated postnatally and is subsequently re-expressed on antigen-exposed T cells. It is expressed by a greater proportion of CD8+ T cells in the elderly and by virus-specific CD8+ T cells during chronic virus infection. KLRG1 binds to E-, N-, and R-Cadherins, triggering ITIM? dependent KLRG1 signaling and inhibition of T cell activation. The response is bi?directional, as KLRG1 binding to E-Cadherin on dendritic cells (DC) can induce an anti-inflammatory DC phenotype (increased IL-10 production and decreased IL?6 and TNF-alpha production).

Basic Information

Description
Recombinant Human KLRG1/CLEC15A/CD369 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Leu60-Phe195) of human KLRG1/CLEC15A/CD369 (Accession #NP_001316028.1) fused with a raFc tag at the N-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

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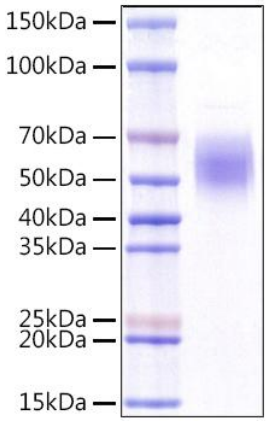
Validation Data



Recombinant Human KLRG1/CLEC15A/CD369 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.