

Recombinant Human KLRG1/CLEC15A/CD369 Protein

Catalog No.: RP01521 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Human	10219	Q96E93

Tags

N-Rabbit Fc

Synonyms

2F1;MAFA;MAFA-L;
CLEC15A;MAFA-2F1;MAFA-LIKE;KLRG1

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin

<0.1EU/μg

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

Contact

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

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 IL10 production and decreased IL6 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.

Bio-Activity

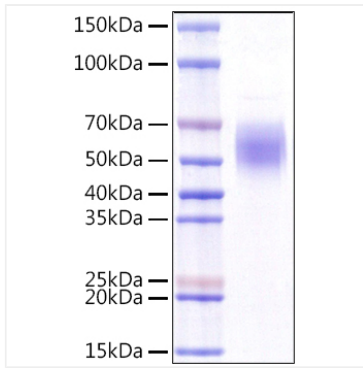
Storage

Store the lyophilized protein at -20°C to -80°C for 12 months.

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.

Validation Data



Recombinant Human KLRG1/CLEC15A/CD369 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at kDa.