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Recombinant

Species	Gene ID	Swiss Prot
Human	10219	O96E93

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

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

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

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

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.

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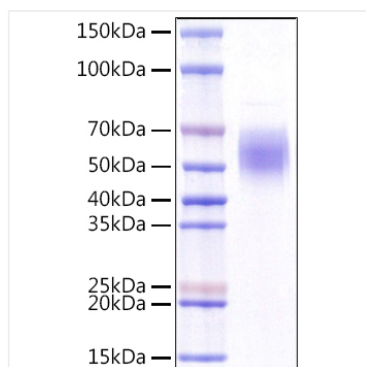
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KLRG1 (killer cell lectin-like receptor G1), also called MAFA (mast cell function associated), is an inhibitory type II transmembrane glycoprotein of the C-type lectin family, designated CLEC15A. Within the ECD, Human KLRG1 shares 57% and 80% aa sequence 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 downregulated 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 bidirectional, as KLRG1 binding to E7Cadherin on dendritic cells (DC) can induce an anti-inflammatory DC phenotype (increased IL10 production and decreased IL6 and TNF alpha production).

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.

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.

Validation Data



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