Recombinant Human TNFSF5/CD40 ligand/CD154 Protein

Catalog No.: RP01733

Sequence Information

Species	Gene ID
Human	959
Swiss Prot	**Tags**
P29965	N-6His

Synonyms
IGM; IMD3; TRAP; gp39; CD154; CD40L; HIGM1; T-BAM; TNFSF5; hCD40L; CD40LG

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.
Calculated MW	**Observed MW**
16.64 kDa	20-27 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

CD154, also known as CD40 ligand or CD40L, is a member of the TNF superfamily. While CD154 was originally found on T cell surface, its expression has since been found on a wide variety of cells, including platelets, mast cells, macrophages and NK cells. CD154's ability is achieved through binding to the CD40 on antigen-presenting cells (APC). In the macrophage cells, the primary signal for activation is IFN-γ from Th1 type CD4 T cells. The secondary signal is CD40L on the T cell, which interacting with the CD40 molecules, helping increase the level of activation.

Basic Information

Description
Active Recombinant Human CD40-L/CD40L/TNFSF5/TRAP/CD40LG Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly116-Leu261) of human CD40-L/CD40L/TNFSF5/TRAP /CD40LG(Accession #NP_000065.1) fused with and a 6×His tag at the N-terminus.

Activity
Measured by its binding ability in a functional ELISA.Immobilized Human CD40L (Catalog: RP01733) at 5 μg/mL (100 μL/well) can bind Human CD40 (Catalog: RP01218) with a linear range of 0.005-0.5 μg/mL.

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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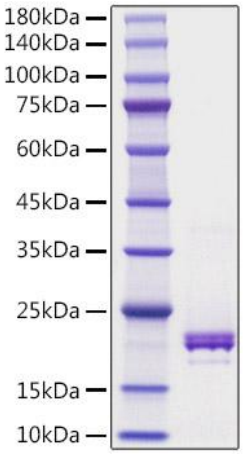
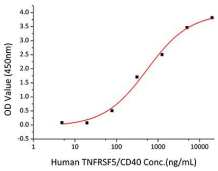
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



Recombinant Human TNFSF5/CD40 ligand/CD154 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



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