

Recombinant Mouse TNFSF5/CD40 ligand/CD154 Protein

Catalog No.: RP01734

Sequence Information

Species	Gene ID
Mouse	21947
Swiss Prot	Tags
P27548	N-6His

Synonyms

IGM; IMD3; Ly62; TRAP; gp39; CD154; Cd40l; HIGM1; Ly-62; T-BAM; CD40-L; Tnfsf5; Tnlg8b; CD40LG

Product Information

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

Calculated MW	Observed MW
16.83 kDa	19-22 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 stabilizer (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

Recombinant Mouse TNFSF5/CD40 ligand/CD154 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Gly115-Leu260) of mouse CD40-L/CD40L/TNFSF5/TRAP/CD40LG (Accession #NP_035746.2) fused with and a 6×His tag at the N-terminus.

Activity

Measured by its binding ability in a functional ELISA. Immobilized Mouse CD40L (Catalog: RP01734) at 5 μg/mL (100 μL/well) can bind Human CD40 (Catalog: RP01218) with a linear range of 0.005-1 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°C

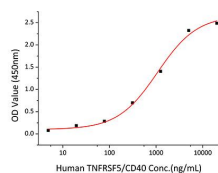
Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

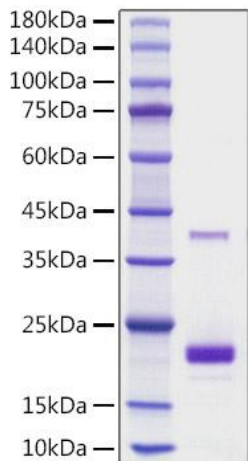
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Validation Data



Immobilized Mouse CD40L (Catalog: RP01734) at 5 µg/mL (100 µL/well) can bind Human CD40 (Catalog: RP01218) with a linear range of 0.005–1 µg/mL.



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