

Biotinylated Human CD40/TNFRSF5 Protein

Cat. No. CD4-HM440B

Description

Source	Recombinant Biotinylated Human CD40/TNFRSF5 Protein is expressed from Expi293 with His tag and Avi tag at the C-terminal. It contains Glu21-Arg193.
Accession	P25942
Molecular Weight	The protein has a predicted MW of 22.1 kDa. Due to glycosylation, the protein migrates to 35-40 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per µg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE > 95% as determined by HPLC

Formulation and Storage

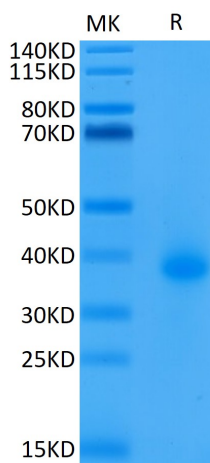
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 5% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge tubes before opening. Reconstituting to a concentration more than 100 µg/ml is recommended (usually we use 1mg/ml solution for lyophilization). Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please avoid freeze-thaw cycles.

Background

CD40 is a costimulatory protein found on antigen presenting cells and is required for their activation. The binding of CD154 (CD40L) on TH cells to CD40 activates antigen presenting cells and induces a variety of downstream effects. CD40 molecule is a potential target for cancer immunotherapy. There are number of completed and ongoing clinical trials where agonistic anti-CD40 monoclonal antibodies are employed to activate an anti-tumor T cell response via activation of dendritic cells.

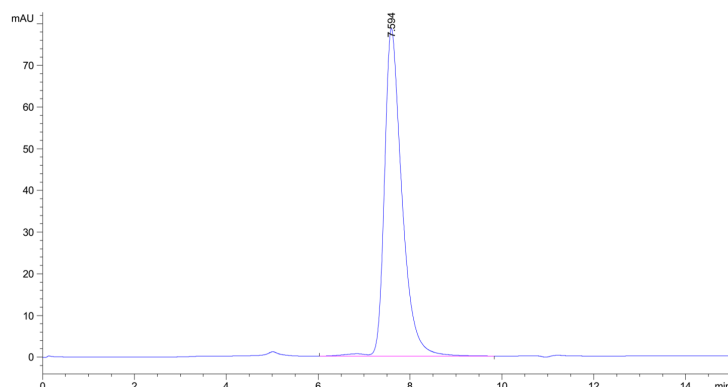
Assay Data

Tris-Bis PAGE



Biotinylated Human CD40 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



The purity of Biotinylated Human CD40 is greater than 95% as determined by SEC-HPLC.

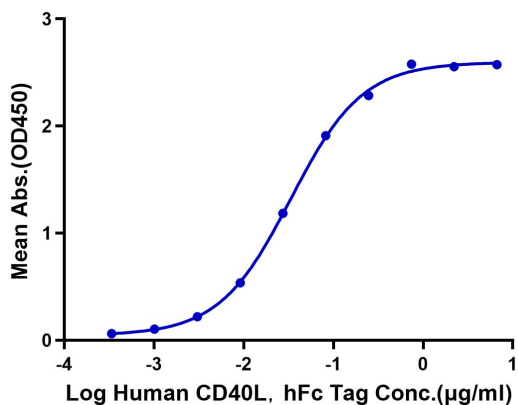
ELISA Data

For Research Use Only

Assay Data

Biotinylated Human CD40, His Tag ELISA

0.1µg Biotinylated Human CD40, His Tag Per Well

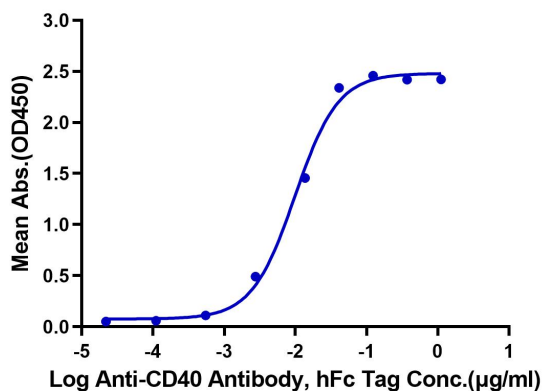


Immobilized Biotinylated Human CD40, His Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Human CD40L, hFc Tag with the EC50 of 33ng/ml determined by ELISA.

ELISA Data

Biotinylated Human CD40, His Tag ELISA

0.1µg Biotinylated Human CD40, His Tag Per Well

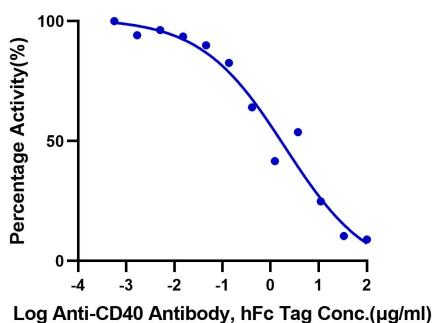


Immobilized Biotinylated Human CD40, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Anti-CD40 Antibody, hFc Tag with the EC50 of 9.9ng/ml determined by ELISA.

Blocking Data

Inhibition of Human CD40 Ligand (Trimer) and CD40 Binding

0.5µg Human CD40 Ligand (Trimer), hFc Tag Per Well



Serial dilutions of Anti-CD40 Antibody were added into Biotinylated Human CD40, His Tag : Human CD40 Ligand (Trimer) , hFc Tag binding reactions. The half maximal inhibitory concentration (IC50) is 2.0ug/ml.