

Biotinylated Human CD40/TNFRSF5 Protein



Cat. No. CD4-HM440B

Description	
Source	Recombinant Biotinylated Human CD40/TNFRSF5 Protein is expressed from HEK293 with His tag and Avi tag at the C-Terminus. 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 Bis-Tris PAGE result.
Endotoxin	Less than 1 EU per µg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

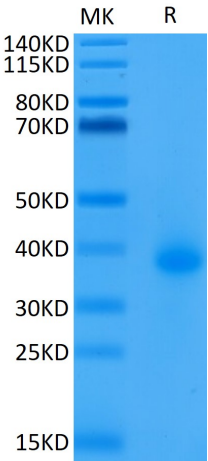
Formulation and Storage	
Formulation	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-80°C for 3 months after reconstitution.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

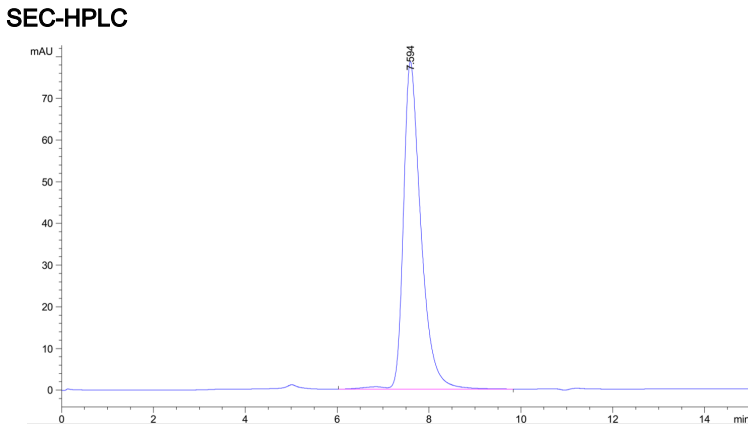
CD40 is a costimulatory protein found on antigen presenting cells and is required for their activation. The binding of CD154 (CD40L) on TH cells to CD40 activates antigen presenting cells and induces a variety of downstream effects.CD40 molecule is a potential target for cancer immunotherapy. There are 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

Bis-Tris PAGE



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



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

Biotinylated Human CD40/TNFRSF5 Protein

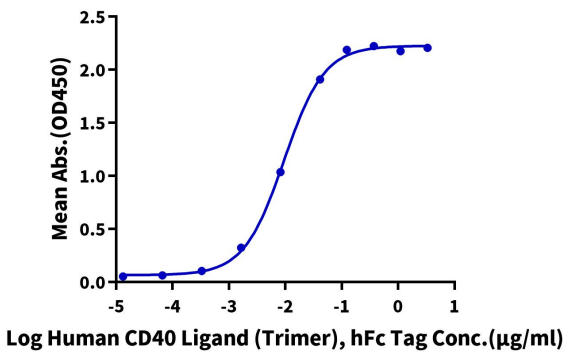
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Assay Data

ELISA Data

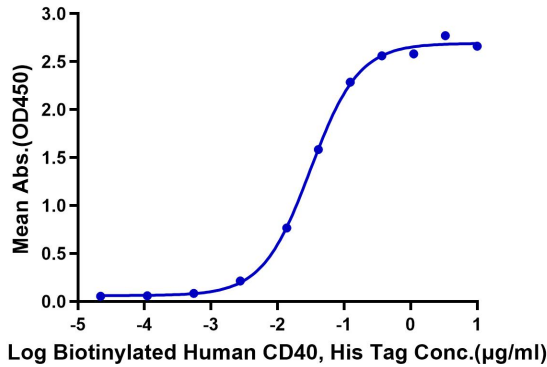
Biotinylated Human CD40, His Tag ELISA
0.1µg Biotinylated Human CD40, His Tag Per Well



Immobilized Biotinylated Human CD40, His Tag at 1µg/ml (100µl/well) on the streptavidin precoated plate (5µg/ml). Dose response curve for Human/Cynomolgus/Rhesus macaque CD40 Ligand (Trimer), hFc Tag with the EC50 of 9.5ng/ml determined by ELISA (QC test).

ELISA Data

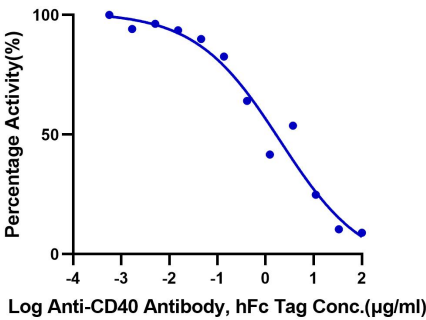
Biotinylated Human CD40, His Tag ELISA
0.1µg Anti-CD40 Antibody, hFc Tag Per Well



Immobilized Anti-CD40 Antibody at 1µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human CD40, His Tag with the EC50 of 31.3ng/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/Cynomolgus/Rhesus macaque CD40 Ligand (Trimer) , hFc Tag binding reactions. The half maximal inhibitory concentration (IC50) is 2.0ug/ml.