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Datasheet for ABIN7274188

CD40 Protein (CD40) (AA 24-193) (His tag)

3 Images

Overview

Quantity:	100 µg
Target:	CD40
Protein Characteristics:	AA 24-193
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD40 protein is labelled with His tag.

Product Details

Purpose:	Mouse CD40/TNFRSF5 Protein
Sequence:	Val24-Arg193
Characteristics:	Recombinant Mouse CD40/TNFRSF5 Protein is expressed from HEK293 with His tag at the C-Terminus.It contains Val24-Arg193.
Purity:	> 95 % as determined by Tris-Bis PAGE,> 95 % as determined by HPLC
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1EU per µg by the LAL method.
Biological Activity Comment:	Immobilized Mouse CD40, His Tag at 1µg/ml (100µl/well) on the plate. Dose response curve for Mouse CD40 Ligand Trimer, hFc Tag with the EC50 of 78.3ng/ml determined by ELISA. See testing image for detail.

Target Details

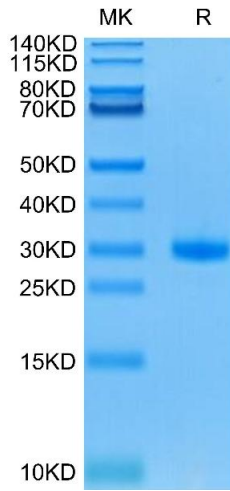
Target:	CD40
Alternative Name:	CD40 (CD40 Products)
Background:	CD40 is a costimulatory protein found on antigen presenting cells and is required for their activation. The binding of CD154 (CD40L) on TH cells to CD40 activates antigen presenting cells and induces a variety of downstream effects. CD40 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.
Molecular Weight:	19.9 kDa. Due to glycosylation, the protein migrates to 30-35 kDa based on Tris-Bis PAGE result.
Pathways:	NF-kappaB Signaling , Cellular Response to Molecule of Bacterial Origin , M Phase , Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Production of Molecular Mediator of Immune Response , Cancer Immune Checkpoints

Application Details

Restrictions:	For Research Use only
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Handling

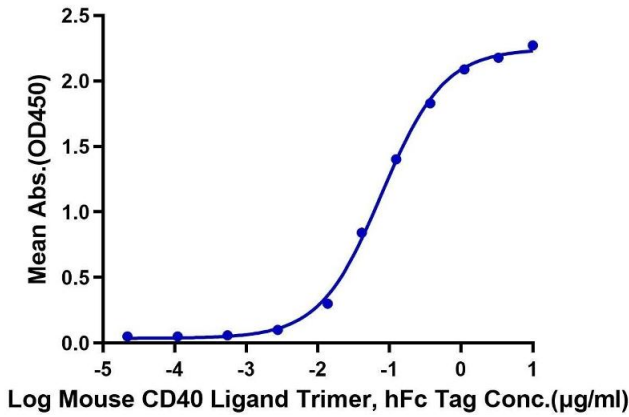
Format:	Lyophilized
Reconstitution:	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/mL is recommended. Dissolve the lyophilized protein in distilled water.
Buffer:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8 % trehalose is added as protectant before lyophilization.
Storage:	-20 °C, -80 °C
Storage Comment:	-20 to -80°C for 12 months as supplied from date of receipt., -80°C for 3-6 months after reconstitution., 2-8°C for 2-7 days after reconstitution., Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.
Expiry Date:	12 months



SDS-PAGE

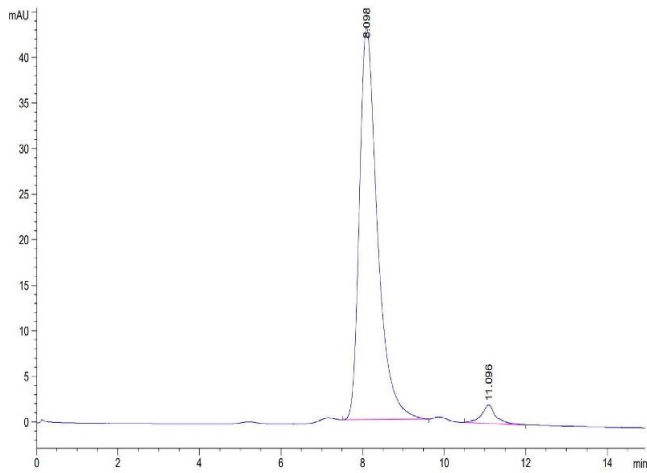
Image 1. Mouse CD40 on Tris-Bis PAGE under reduced condition. The purity is greater than 95 % .

Mouse CD40, His Tag ELISA
0.1µg Mouse CD40, His Tag Per Well



ELISA

Image 2. Immobilized Mouse CD40, His Tag at 1 µg/mL (100 µL/well) on the plate. Dose response curve for Mouse CD40 Ligand Trimer, hFc Tag with the EC50 of 78.3 ng/mL determined by ELISA.



Size-exclusion chromatography-High Pressure Liquid Chromatography

Image 3. The purity of Mouse CD40 is greater than 95 % as determined by SEC-HPLC.