

Datasheet for ABIN2180793

CD40 Protein (CD40) (AA 21-193) (His tag)**2** Images**1** Publication[Go to Product page](#)

Overview

Quantity:	200 µg
Target:	CD40
Protein Characteristics:	AA 21-193
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This CD40 protein is labelled with His tag.

Product Details

Sequence:	AA 21-193
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 20 kDa. The protein migrates as 32 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	CD40
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Target Details

Alternative Name: CD40 ([CD40 Products](#))

Background: Tumor necrosis factor receptor superfamily member 5 (TNFRSF5) is also known as CD40, is a member of the TNF receptor superfamily. The expression of CD40 is diverse. TNFRSF5 has been found to be essential in mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. CD40 is the receptor for TNFSF5/CD40LG. Defects in CD40 are the cause of immunodeficiency with hyper-IgM type 3 (HIGM3).

Molecular Weight: 21.1 kDa

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

Handling

Format: Lyophilized

Buffer: PBS, pH 7.4

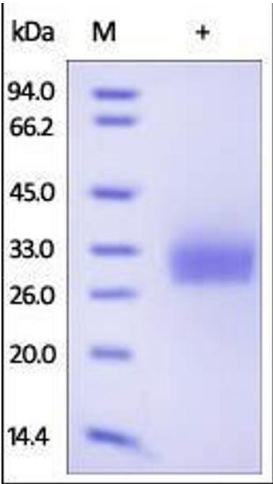
Handling Advice: Please avoid repeated freeze-thaw cycles.

Storage: -20 °C

Storage Comment: No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C-8 °C), After reconstitution under sterile conditions for 1 month (4 °C-8 °C) or 3 months (-20 °C to -70 °C).

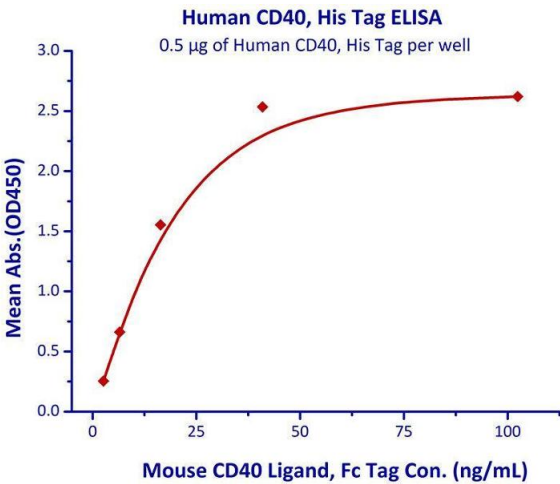
Publications

Product cited in: Yu, Huang, Chen, Liu, Wu, Pu, Wang, Kang, Zhou: "Characterization of a novel anti-human lymphocyte activation gene 3 (LAG-3) antibody for cancer immunotherapy." in: **mAbs**, Vol. 11, Issue 6, pp. 1139-1148, (2019) ([PubMed](#)).



SDS-PAGE

Image 1. Human CD40, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.



Binding Studies

Image 2. Immobilized Human CD40, His Tag with a linear range of 2.6-16 ng/mL.