Datasheet for ABIN6961088

CD40 Protein (CD40) (mFc-His Tag)

3 Images

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Overview

Quantity:	100 µg
Target:	CD40
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD40 protein is labelled with mFc-His Tag.
Application:	ELISA

Product Details

Purpose:	Recombinant human CD40 protein with C-terminal mouse Fc and 6xHis tag
Specificity:	CD40 (Glu21-Arg193) mFc (Pro99-Lys330) 6xHis
Characteristics:	Extracellular Domain Protein
Purification:	affinity purification
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.

Target Details

Target:	CD40
Alternative Name:	CD40 (CD40 Products)
Background:	Synonymes: CD40, Bp50, CDW40, MGC9013, TNFRSF5, p50

Target Details

	Description: This gene is a member of the TNF-receptor superfamily. The encoded protein is a receptor on antigen-presenting cells of the immune system and is essential for mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. AT-hook transcription factor AKNA is reported to coordinately regulate the expression of this receptor and its ligand, which may be important for homotypic cell interactions. Adaptor protein TNFR2 interacts with this receptor and serves as a mediator of the signal transduction. The interaction of this receptor and its ligand is found to be necessary for amyloid-beta-induced microglial activation, and thus is thought to be an early event in Alzheimer disease pathogenesis. Mutations affecting this gene are the cause of autosomal recessive hyper-IgM immunodeficiency type 3 (HIGM3). Multiple alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported.
Molecular Weight:	predicted molecular mass of 68 kDa after removal of the signal peptide.
Gene ID:	958
UniProt:	P25942
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

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

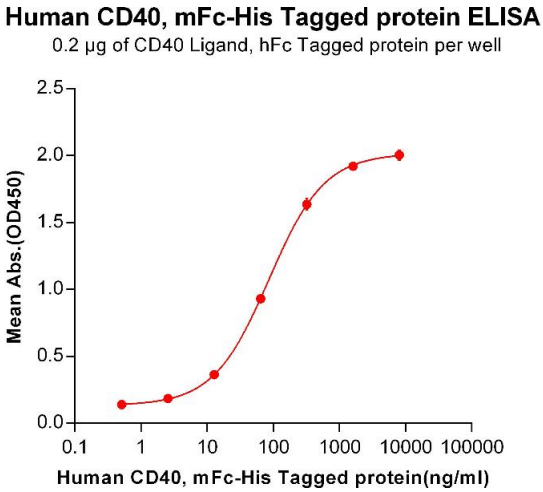
Handling

Format:	Lyophilized
Reconstitution:	Reconstitute with deionized water
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.
Preservative:	Without preservative
Storage:	-20 °C,-80 °C
Storage Comment:	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for

Handling

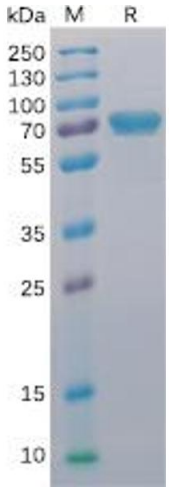
	use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Expiry Date:	12 months

Images



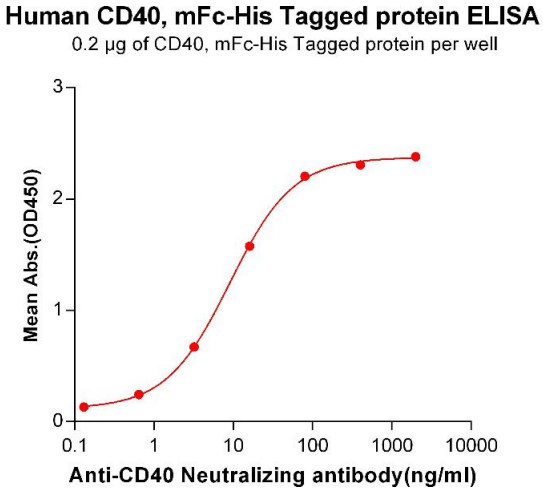
ELISA

Image 1. ELISA plate pre-coated by 2 μg/mL (100 μL/well) Human CD40 Ligand,hFc tagged protein (ABIN6964081) can bind Human CD40, mFc-His tagged protein (ABIN6961088) in a linear range of 0.51-320 ng/mL.



SDS-PAGE

Image 2. Human CD40 Protein, mFc-His Tag on SDS-PAGE under reducing condition.



ELISA

Image 3. ELISA plate pre-coated by 2 μg/mL (100 μL/well) Human CD40, mFc-His tagged protein (ABIN6961088) can bind Anti-CD40 Neutralizing antibody in a linear range of 0.64-80.0 ng/mL.