

Product datasheet for **TP723938**

CD40 Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Human CD40 Protein, mFc-His Tag
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	CD40-Glu21-Arg193+mFc-Pro99-Lys330+6×His
Tag:	C-Mouse Fc and 6×His
Predicted MW:	68 kDa
Purity:	> 95%
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose is added as protectants before lyophilization
Reconstitution Method:	Reconstitute with deionized water
Preparation:	Affinity purification
Applications:	ELISA
Storage:	Store the lyophilized protein at -20°C. After reconstitution, store the protein at -80°C for 12 months. Avoid repeated freezing and thawing.
Stability:	12 months from date of despatch
Locus ID:	958
UniProt ID:	P25942



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Summary:

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.

Protein Families:

ELISA

Protein Pathways:

Allograft rejection, Asthma, Autoimmune thyroid disease, Cell adhesion molecules (CAMs), Cytokine-cytokine receptor interaction, Primary immunodeficiency, Systemic lupus erythematosus, Toll-like receptor signaling pathway, Viral myocarditis

Product images:


Figure 1. Human CD40 Protein, mFc-His Tag on SDS-PAGE under reducing condition.

Human CD40, mFc-His Tagged protein ELISA

0.2 µg of CD40, mFc-His Tagged protein per well

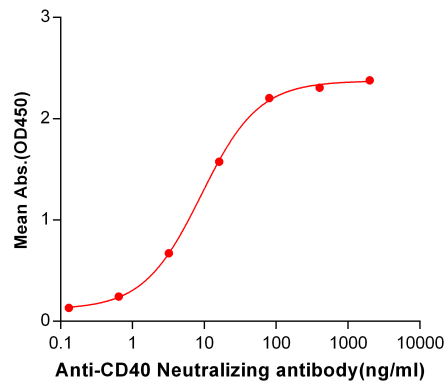


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human CD40, mFc-His tagged protein (TP723938) can bind Anti-CD40 Neutralizing antibody (BME100020) in a linear range of 0.64-80.0 ng/ml.

Human CD40, mFc-His Tagged protein ELISA

0.2 µg of CD40 Ligand, hFc Tagged protein per well

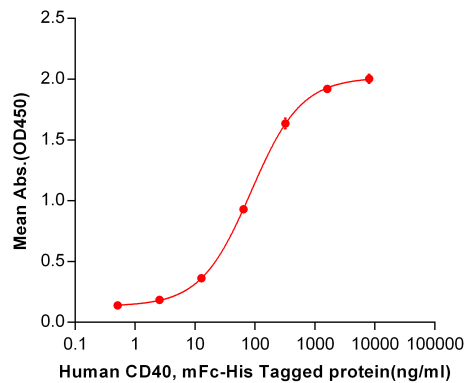


Figure 3. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human CD40 Ligand, hFc tagged protein (TP724047) can bind Human CD40, mFc-His tagged protein (TP723938) in a linear range of 0.51-320 ng/ml.