PRODUCT INFORMATION

Target	CD40
Synonyms	CD40;Bp50;CDW40;MGC9013;TNFRSF5;p50
Description	Recombinant human CD40 protein with C-terminal mouse Fc and 6×His tag
Delivery	In Stock
Uniprot ID	P25942
Expression Host	HEK293
Tag	C-Mouse Fc and 6×His Tag
Molecular Characterization	CD40(Glu21-Arg193) mFc(Pro99-Lys330) 6×His
Molecular Weight	The protein has a predicted molecular mass of 68 kDa after removal of the signal peptide.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage&Shipping	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Sterility	Products are supplied non-sterile. For cell culture applications, dilute in appropriate medium and sterile-filter (0.22 μm) prior to use.
Background	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.
Usage	Research use only
Conjugate	Unconjugated

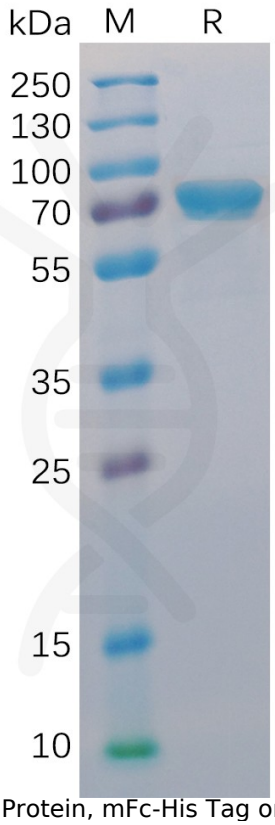

Figure 1. Human CD40 Protein, mFc-His Tag on SDS-PAGE under reducing condition.

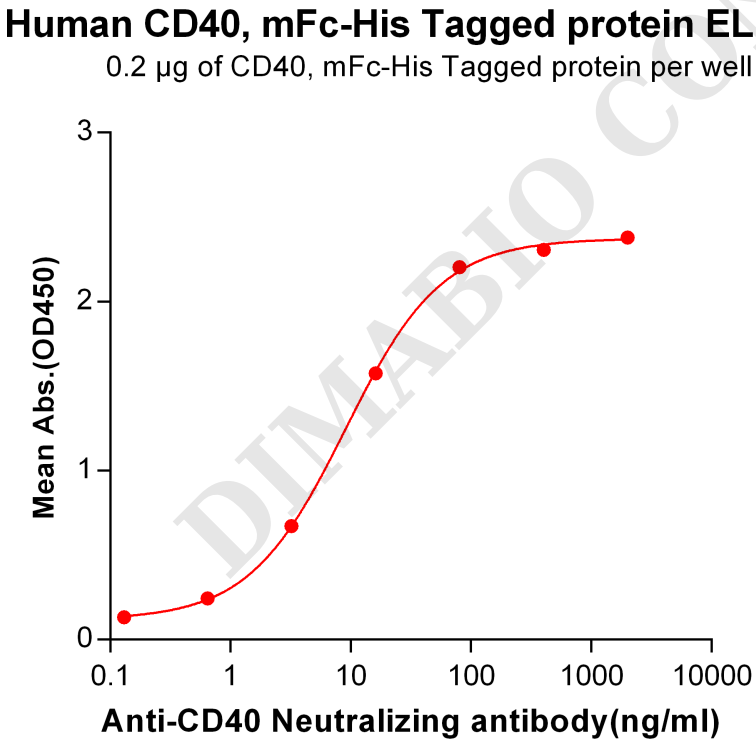

Figure 2. ELISA plate pre-coated by 2 μg/ml (100 μl/well) Human CD40, mFc-His tagged protein (PME100015) can bind Anti-CD40 Neutralizing antibody BME100020 in a linear range of 0.64-80.0 ng/ml.

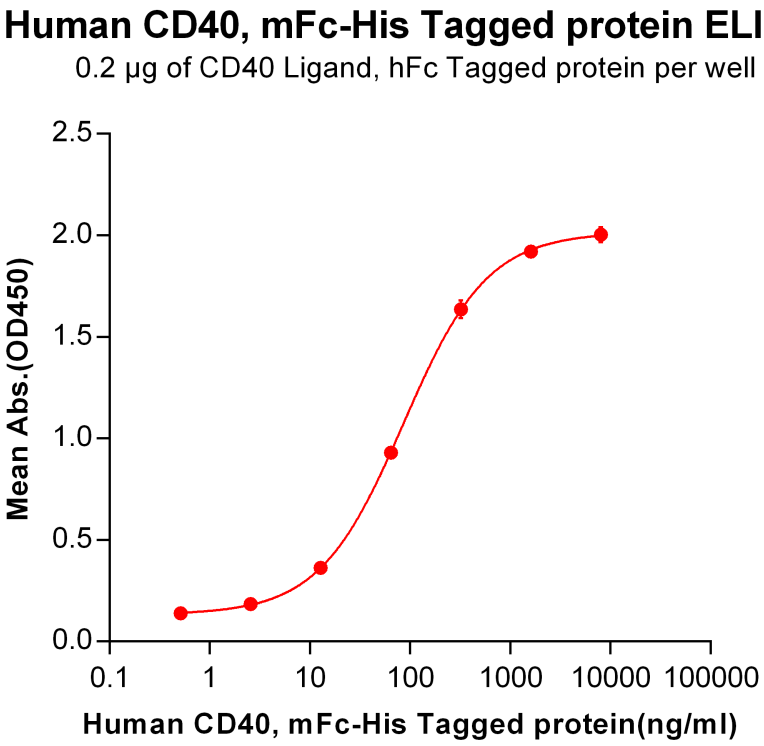

Figure 3. ELISA plate pre-coated by 2 μg/ml (100 μl/well) Human CD40 Ligand,hFc tagged protein PME100192 can bind Human CD40, mFc-His tagged protein (PME100015) in a linear range of 0.51-320 ng/ml.