HUMAN CD40 LIGAND PROTEIN, HFC TAG

Cat.#: 11241
Product Name: Human CD40 Ligand Protein
Size : 10 µg, 50 µg and 100 µg
Synonyms: CD40LG;D154;D40L;IGM1;GM;MD3;-BAM;NFSF5;RAP;p39
Target: CD40 Ligand
UNIPROT ID: P29965
Description: Recombinant human CD40 Ligand Protein with N-terminal Human Fc tag
Background: The protein encoded by this gene is expressed on the surface of T cells. It regulates B cell function by engaging CD40 on the B cell surface. A defect in this gene results in an inability to undergo immunoglobulin class switch and is associated with hyper-IgM syndrome.
Species/Host: HEK293
Molecular Weight: The protein has a predicted molecular mass of 42.3 kDa after removal of the signal peptide.The apparent molecular mass of hFc-CD40 Ligand is approximately 40-53 kDa due to glycosylation.
Molecular Characterization: hFc(Glu99-Ala330) CD40 Ligand(Met113-Leu261)
Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.
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.

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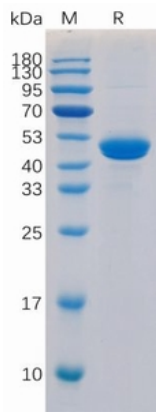

Figure 1. Human CD40 Ligand Protein, hFc Tag on SDS-PAGE under reducing condition.

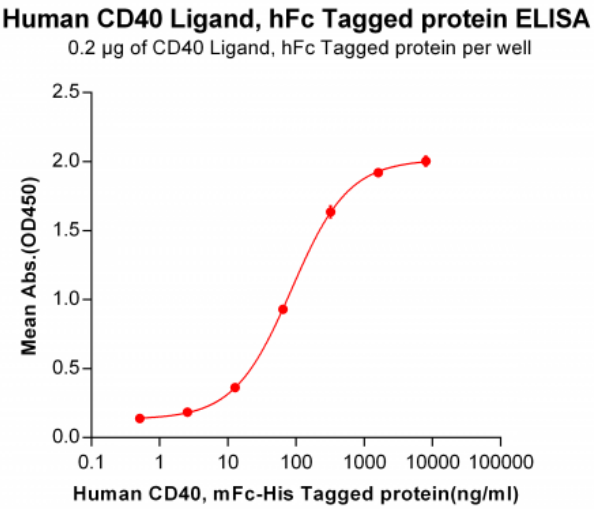

Figure 2. ELISA plate pre-coated by 2 μg/ml (100 μl/well) Human CD40 Ligand,hFc tagged protein (11241) can bind Human CD40, mFc-His tagged protein 11143 in a linear range of 0.51-320 ng/ml.

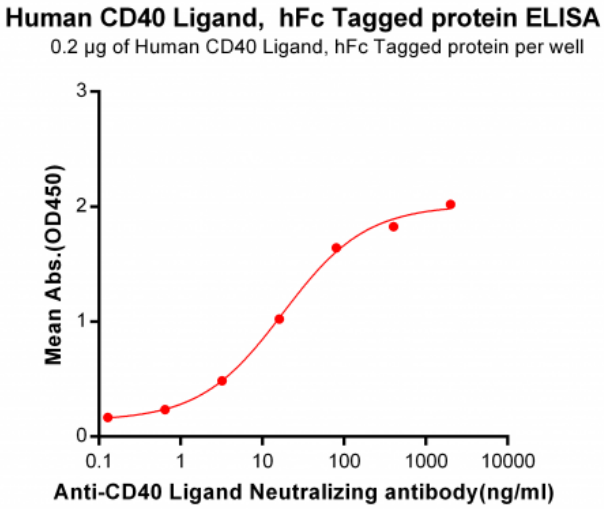

Figure 3. ELISA plate pre-coated by 2 μg/ml (100 μl/well) Human CD40L, hFc tagged protein (11241) can bind Anti-CD40L Neutralizing antibody 28051 in a linear range of 0.64-400 ng/ml.

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