

**PRODUCT INFORMATION**

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|---|---|
| <b>Target</b>                           | CD40 Ligand   |
| <b>Synonyms</b>                         | CD40LG;CD154;CD40L;HIGM1;IGM;IMD3;T-BAM;TNFSF5;TRAP;gp39  |
| <b>Description</b>                      | Recombinant human CD40 Ligand Protein with N-terminal Human Fc tag  |
| <b>Delivery</b>                         | In Stock  |
| <b>Uniprot ID</b>                       | P29965  |
| <b>Expression Host</b>                  | HEK293  |
| <b>Tag</b>                              | N-Human Fc Tag  |
| <b>Molecular Characterization</b>       | hFc(Glu99-Ala330) CD40 Ligand(Met113-Leu261)  |
| <b>Molecular Weight</b>                 | 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.   |
| <b>Purity</b>                           | The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.  |
| <b>Formulation &amp; Reconstitution</b> | 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.   |
| <b>Storage &amp; Shipping</b>           | 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.                           |
| <b>Background</b>                       | 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. |
| <b>Usage</b>                            | Research use only   |
| <b>Conjugate</b>                        | Unconjugated  |



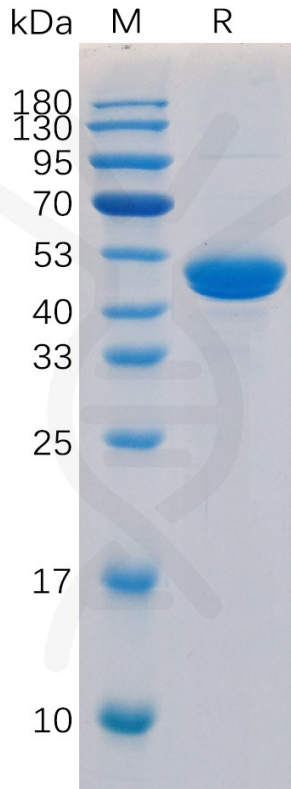


Figure 1. Human CD40 Ligand Protein, hFc Tag on SDS-PAGE under reducing condition.

## Human CD40 Ligand, hFc Tagged protein ELISA

0.2  $\mu$ g of CD40 Ligand, hFc Tagged protein per well

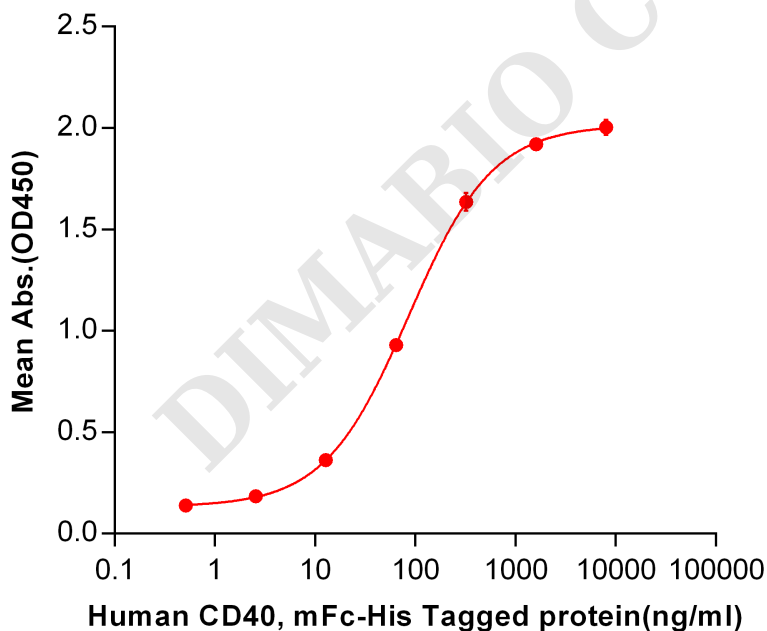


Figure 2. ELISA plate pre-coated by 2  $\mu$ g/ml (100  $\mu$ l/well) Human CD40 Ligand, hFc tagged protein (PME100192) can bind Human CD40, mFc-His tagged protein PME100015 in a linear range of 0.51-320 ng/ml.



## Human CD40 Ligand, hFc Tagged protein ELISA

0.2  $\mu$ g of Human CD40 Ligand, hFc Tagged protein per well

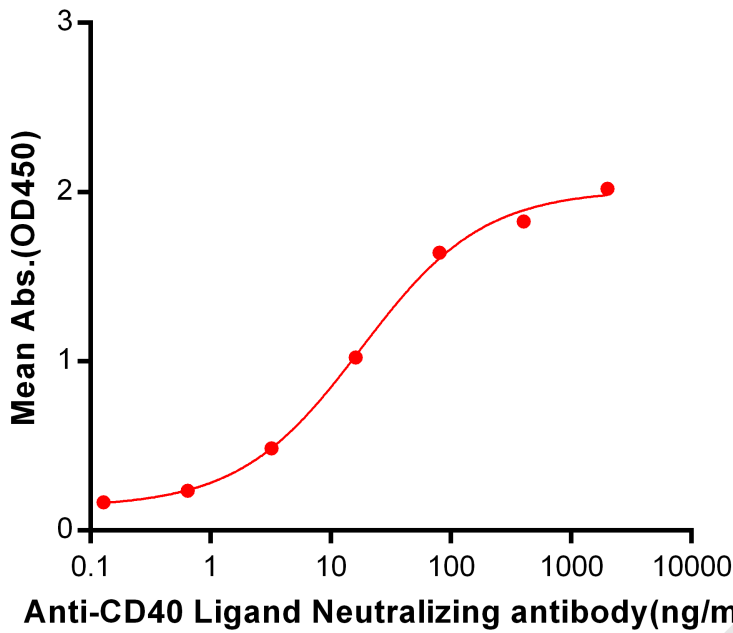


Figure 3. ELISA plate pre-coated by 2  $\mu$ g/ml (100  $\mu$ l/well) Human CD40L, hFc tagged protein (PME100192) can bind Anti-CD40L Neutralizing antibody BME100042 in a linear range of 0.64-400 ng/ml.

