

PRODUCT INFORMATION

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| Target | CD27 |
| Synonyms | CD27;TNFRSF7;S152;T14;Tp55 |
| Description | Recombinant human CD27 protein with C-terminal human Fc tag |
| Delivery | In Stock |
| Uniprot ID | P26842 |
| Expression Host | HEK293 |
| Tag | C-Human Fc Tag |
| Molecular Characterization | CD27(Ala20-Arg191) hFc(Glu99-Ala330) |
| Molecular Weight | The protein has a predicted molecular mass of 45.3 kDa after removal of the signal peptide. The apparent molecular mass of CD27-hFc is approximately 55-70 kDa due to glycosylation. |
| 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. |
| Background | The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor is required for generation and long-term maintenance of T cell immunity. It binds to ligand CD70, and plays a key role in regulating B-cell activation and immunoglobulin synthesis. This receptor transduces signals that lead to the activation of NF-kappaB and MAPK8/JNK. Adaptor proteins TRAF2 and TRAF5 have been shown to mediate the signaling process of this receptor. CD27-binding protein (SIVA), a proapoptotic protein, can bind to this receptor and is thought to play an important role in the apoptosis induced by this receptor. |
| Usage | Research use only |
| Conjugate | Unconjugated |



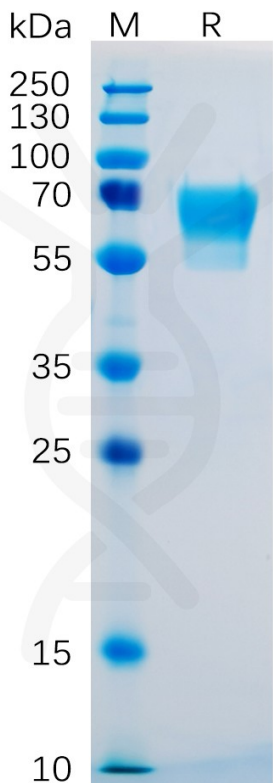


Figure 1. Human CD27 Protein, hFc Tag on SDS-PAGE under reducing condition.

Human CD27, hFc Tagged protein ELISA
0.2 µg of CD27, hFc Tagged protein per well

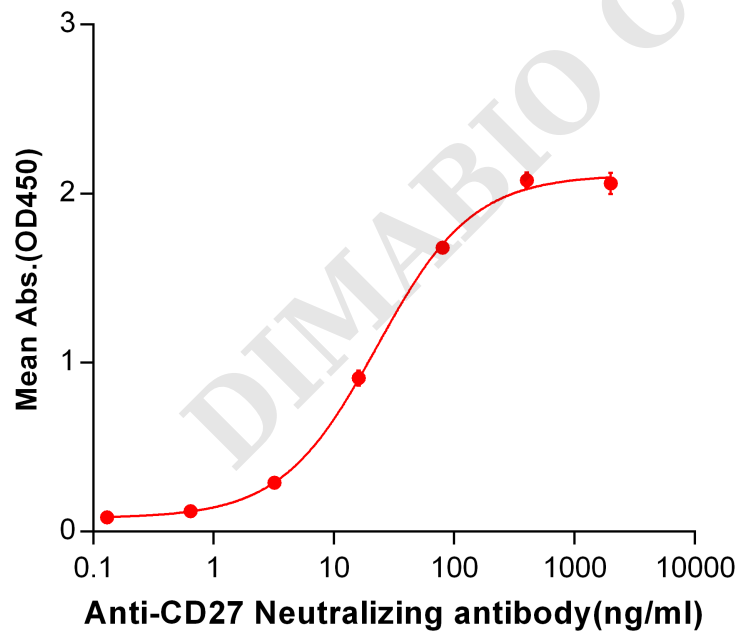


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human CD27, hFc tagged protein (PME100475) can bind Anti-CD27 Neutralizing antibody BME100018 in a linear range of 3.2-80.0 ng/ml.



Human CD27, hFc Tagged protein ELISA
0.2 μ g of CD27, hFc Tagged protein per well

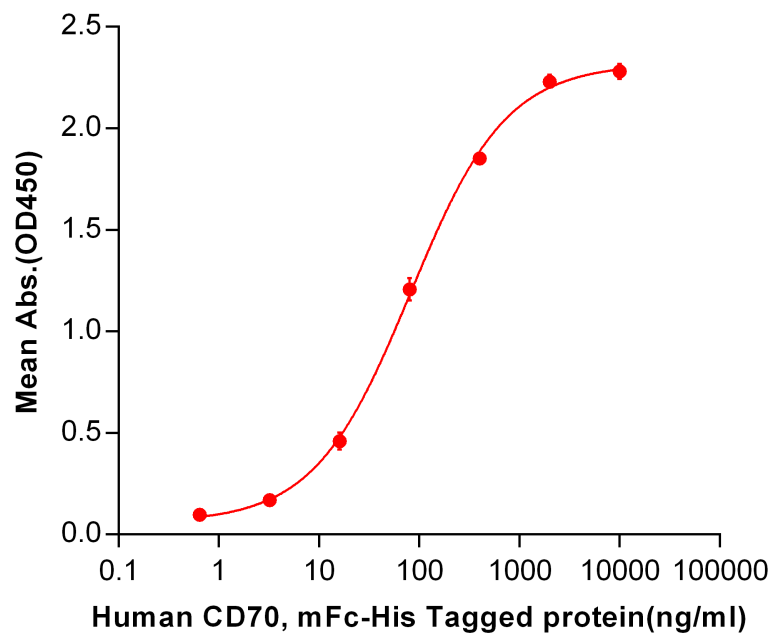


Figure 3. ELISA plate pre-coated by 2 μ g/ml (100 μ l/well) Human CD27, hFc tagged protein (PME100475) can bind Human CD70,mFc-His tagged protein PME100042 in a linear range of 3.2-400 ng/ml.

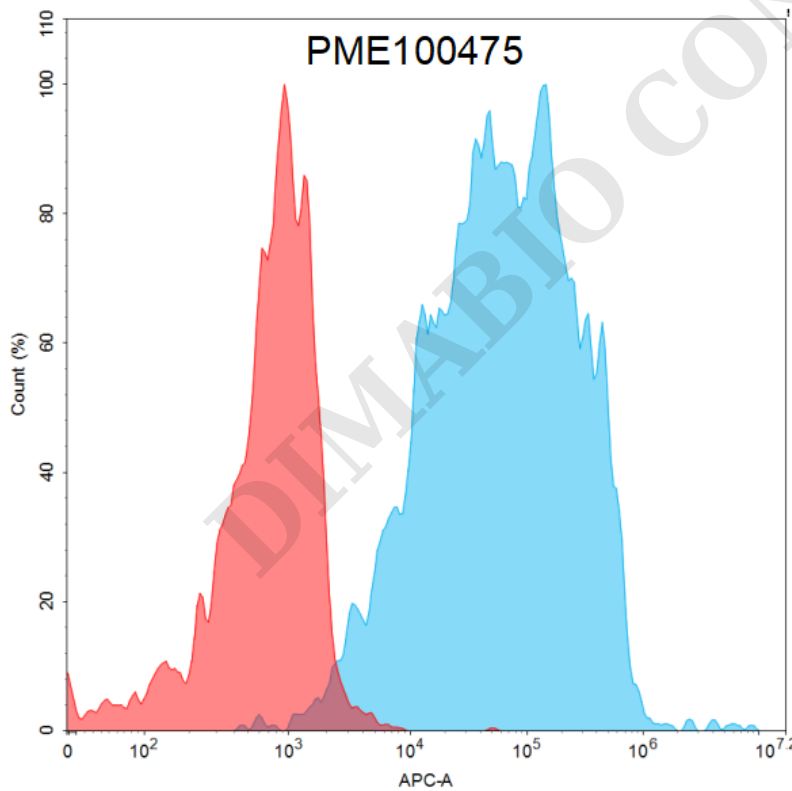


Figure 4. Flow cytometry analysis with 15 μ g/mL Human CD27 Protein, hFc tag (PME100475) on HEK293 cells transfected with human CD70 (Blue histogram) or HEK293 transfected with irrelevant protein (Red histogram).

