

**PRODUCT INFORMATION**

<b>Target</b>	CD28
<b>Synonyms</b>	CD28;Tp44
<b>Description</b>	Recombinant human CD28 protein with C-terminal mouse Fc and 6×His tag
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	P10747
<b>Expression Host</b>	HEK293
<b>Tag</b>	C-Mouse Fc and 6×His Tag
<b>Molecular Characterization</b>	CD28(Asn19-Pro152) mFc(Pro99-Lys330) 6×His
<b>Molecular Weight</b>	The protein has a predicted molecular mass of 68-72 kDa after removal of the signal peptide.
<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 essential for T-cell proliferation and survival, cytokine production, and T-helper type-2 development. Several alternatively spliced transcript variants encoding different isoforms have been found for this gene.
<b>Usage</b>	Research use only
<b>Conjugate</b>	Unconjugated



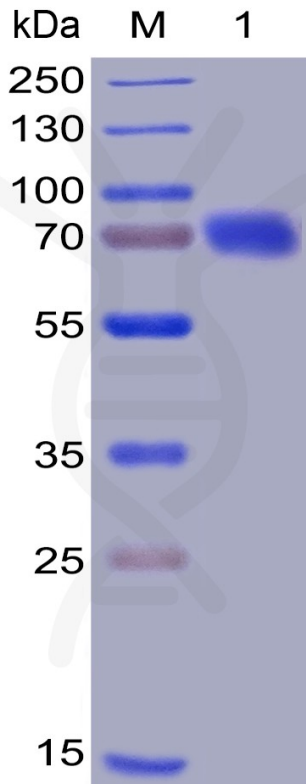


Figure 1. Human CD28 Protein, mFc-His Tag on SDS-PAGE under reducing condition.

### Human CD28, mFc-His Tagged protein ELISA

0.2 µg of B7-1, hFc Tagged protein per well

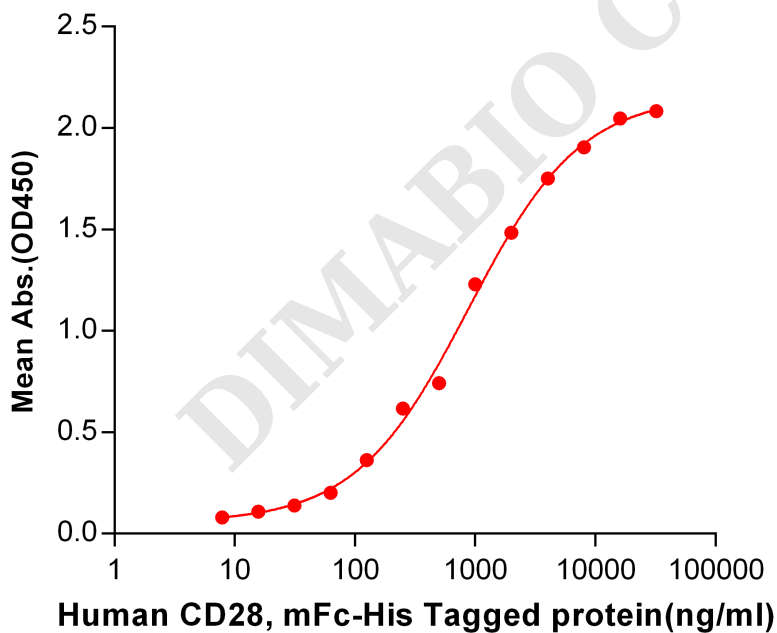


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human B7-1, hFc tagged protein PME100473 can bind Human CD28, mFc-His tagged protein (PME100014) in a linear range of 125-4000 ng/ml.



### Human CD28, mFc-His Tagged protein ELISA

0.2  $\mu$ g of B7-2, hFc Tagged protein per well

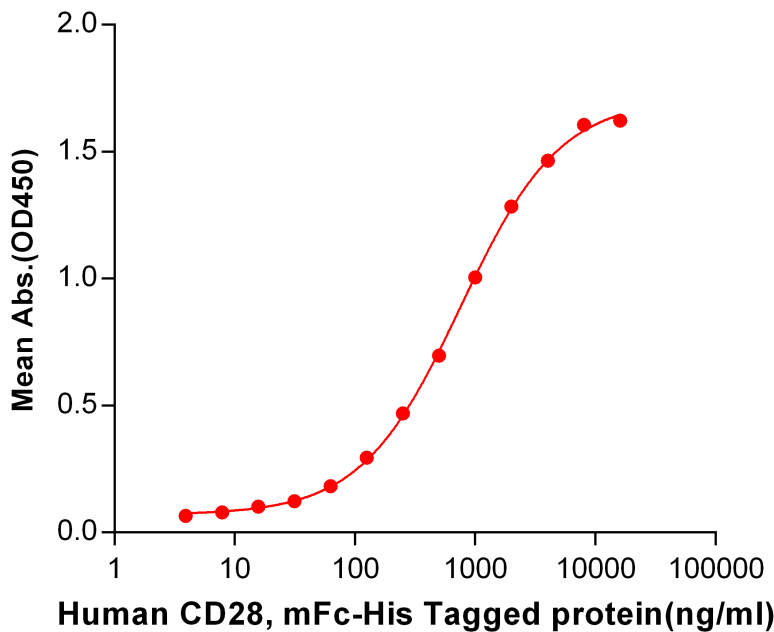


Figure 3. ELISA plate pre-coated by 2  $\mu$ g/ml (100  $\mu$ l/well) Human B7-2, hFc tagged protein PME100474 can bind Human CD28, mFc-His tagged protein (PME100014) in a linear range of 62.5-4000 ng/ml.

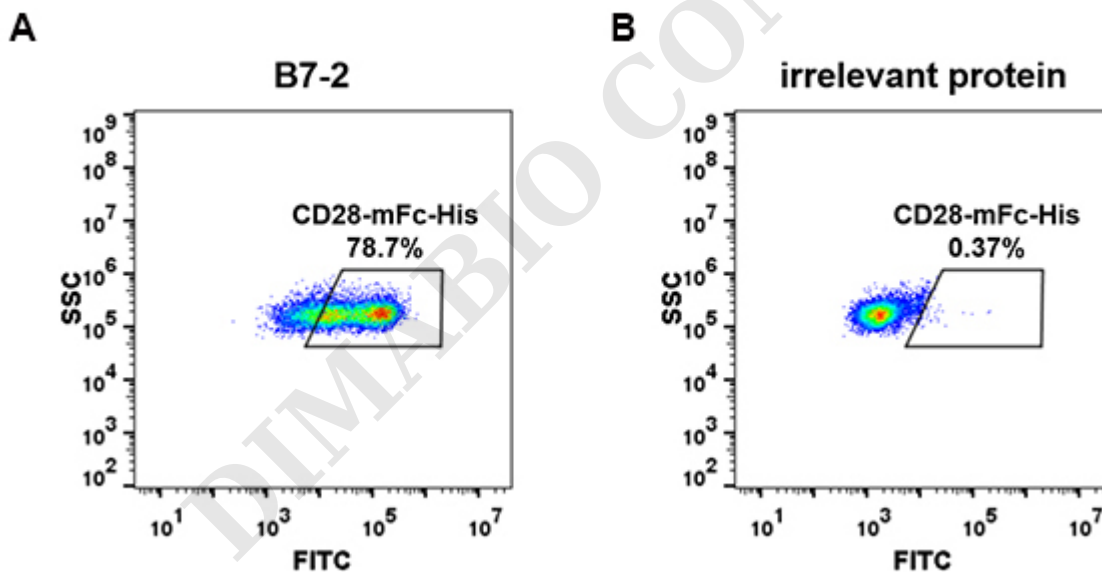


Figure 4. HEK293 cell line transfected with irrelevant protein (B) and human B7-2 (A) were surface stained with Human CD28, mFc-His tagged protein (PME100014) 1 $\mu$ g/ml followed by Alexa 488-conjugated anti-mouse IgG secondary antibody.

