

## **PRODUCT INFORMATION**

**Target** CTLA-4

CTLA4;CD152 **Synonyms** 

Recombinant human CTLA-4 protein with C-**Description** 

terminal mouse Fc and 6×His tag

**Delivery** In Stock **Uniprot ID** P16410 **Expression Host HEK293** 

Tag C-Mouse Fc and 6×His Tag

Molecular CTLA-4(Lys36-Asp161) mFc(Pro99-Lys330) 6×His

Characterization

The protein has a predicted molecular mass of 54 **Molecular Weight** 

kDa after removal of the signal peptide.

The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue **Purity** 

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before

Formulation & lyophilization. Please see Certificate of Analysis Reconstitution

for specific instructions of reconstitution. 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). Storage & Shipping

Lyophilized proteins are shipped at ambient

temperature.

This gene is a member of the immunoglobulin superfamily and encodes a protein which transmits an inhibitory signal to T cells. The protein contains a V domain, a transmembrane domain, and a cytoplasmic tail. Alternate

transcriptional splice variants, encoding different

isoforms, have been characterized. The membrane-bound isoform functions as a

**Background** homodimer interconnected by a disulfide bond, while the soluble isoform functions as a monomer. Mutations in this gene have been

associated with insulin-dependent diabetes mellitus, Graves disease, Hashimoto thyroiditis, celiac disease, systemic lupus erythematosus, thyroid-associated orbitopathy, and other

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autoimmune diseases.

**Usage** Research use only

Conjugate Unconjugated



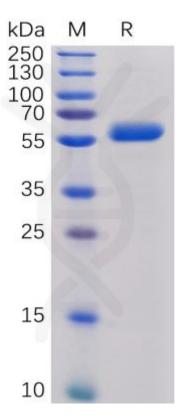


Figure 1. Human CTLA-4 Protein, mFc-His Tag on SDS-PAGE under reducing condition.

## Human CTLA4, mFc-His Tagged protein ELISA

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

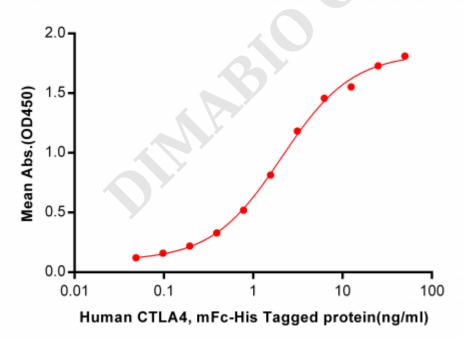


Figure 2. ELISA plate pre-coated by 2  $\mu$ g/ml (100  $\mu$ l/well) Human B7-1, hFc tagged protein ([getskuurl sku="PME100473"]) can bind Human CTLA4, mFc-His tagged protein (PME100017) in a linear range of 0.048-2.094 ng/ml.

Address: Wuhan institute of Biotechnology B7, Biolake No.666 Gaoxin Road, Wuhan, Hubei, China Telephone: +1 2409940618(USA) /+86-18062749453(China) /+86-400-006-0995(China)

Email: info@dimabio.com Website: www.dimabio.com



## Human CTLA4, mFc-His Tagged protein ELISA

0.2 µg of Human B7-2, hFc Tagged protein per well

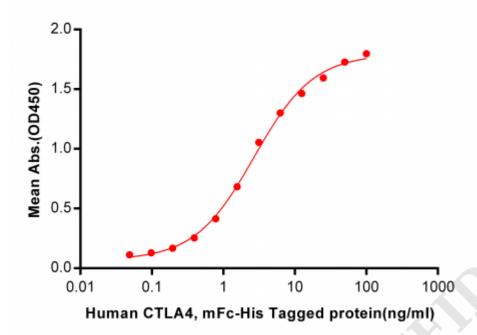
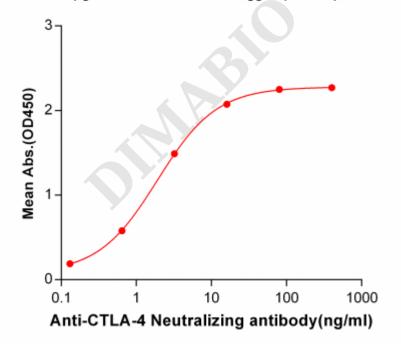


Figure 3. ELISA plate pre-coated by 2  $\mu$ g/ml (100  $\mu$ l/well) Human B7-2, hFc tagged protein ([getskuurl sku="PME100474"]) can bind Human CTLA4, mFc-His tagged protein (PME100017) in a linear range of 0.048-2.694 ng/ml.

## Human CTLA-4, mFc-His Tagged protein ELISA

0.2 µg of CTLA-4, mFc-His Tagged protein per well



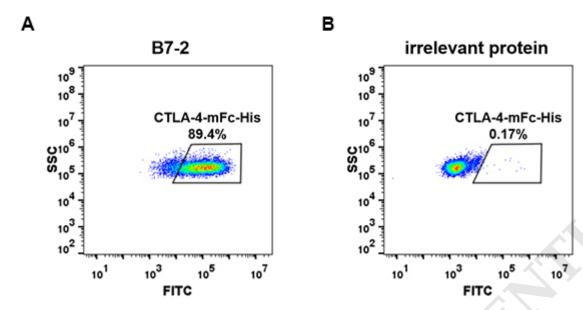
**Figure 4.** ELISA plate pre-coated by 2  $\mu$ g/ml (100  $\mu$ l/well) Human CTLA-4, mFc-His tagged protein (PME100017) can bind Anti-CTLA-4 Neutralizing antibody ([getskuurl sku="BME100022"]) in a linear range of 0.13-16.0 ng/ml.

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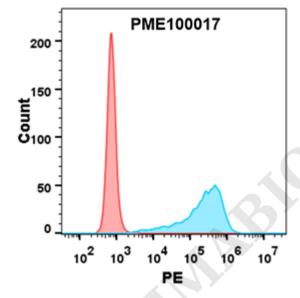
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**Figure 5.** HEK293 cell line transfected with irrelevant protein **(B)** and human B7-2 **(A)** were surface stained with Human CTLA4, mFc-His tagged protein (PME100017) 1μg/ml followed by Alexa 488-conjugated anti-mouse IgG secondary antibody.



**Figure 6.** Flow cytometry analysis with 1ug/ml Human CTLA4 Protein, mFc-His tag (PME100017) on Expi293 cells transfected with human B7-1 (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).

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