

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,

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thyroid-associated orbitopathy, and other

autoimmune diseases.

Usage Research use only

Conjugate Unconjugated





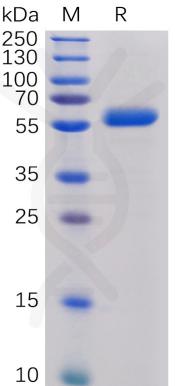


Figure 1. Human CTLA-4 Protein, mFc-His Tag on SDS-PAGE under reducing condition.

Human CTLA4, mFc-His Tagged protein ELISA

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

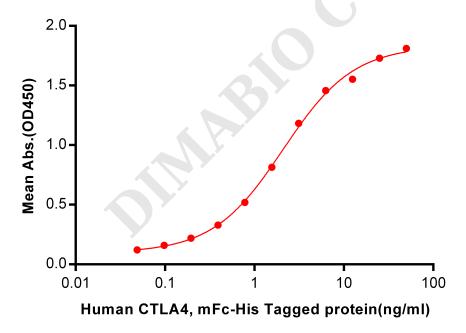


Figure 2. ELISA plate pre-coated by 2 μ g/ml (100 μ l/well) Human B7-1, hFc tagged protein PME100473 can bind Human CTLA4, mFc-His tagged protein (PME100017) in a linear range of 0.048-2.094 ng/ml.



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Human CTLA4, mFc-His Tagged protein ELISA

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

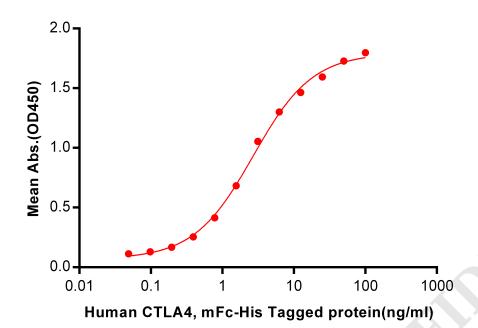


Figure 3. ELISA plate pre-coated by 2 μ g/ml (100 μ l/well) Human B7-2, hFc tagged protein PME100474 can bind Human CTLA4, mFc-His tagged protein (PME100017) in a linear range of 0.048-2.694 ng/ml.

Human CTLA-4, mFc-His Tagged protein ELISA

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

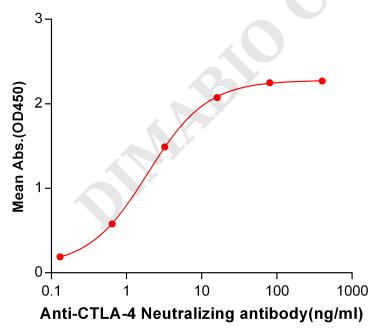


Figure 4. ELISA plate pre-coated by 2 μ g/ml (100 μ l/well) Human CTLA-4, mFc-His tagged protein (PME100017) can bind Anti-CTLA-4 Neutralizing antibody BME100022 in a linear range of 0.13-16.0 ng/ml.

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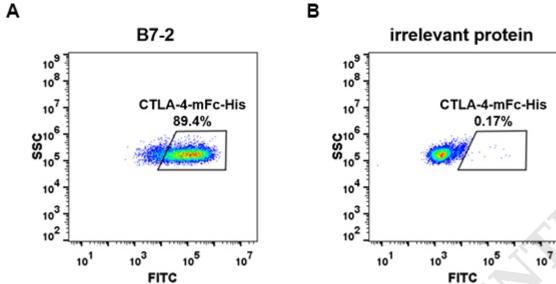


Figure 5. HEK293 cell line transfected with irrelevant protein (B) and human B7-2 (A) were surface stained with Human CTLA4, mFc-His tagged protein (PME100017) $1\mu g/ml$ followed by Alexa 488-conjugated anti-mouse IgG secondary antibody.

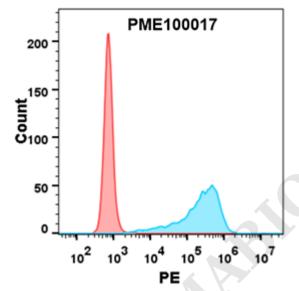


Figure 6. Flow cytometry analysis with $1\mu g/mL$ Human CTLA4 Protein, mFc-His tag (PME100017) on HEK293 cells transfected with human B7-1 (Blue histogram) or HEK293 transfected with irrelevant protein (Red histogram).

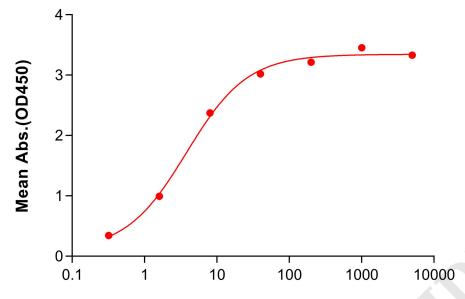
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Human CTLA-4, mFc-His Tagged Protein ELISA

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



Anti-CTLA-4(botensilimab biosimilar) mAb (ng/mL)

Figure 7. ELISA plate pre-coated by 2 μ g/mL (100 μ L/well) Human CTLA-4 Protein, mFc-His Tag (PME100017) can bind Anti-CTLA-4(botensilimab biosimilar) mAb (BME100440) in a linear range of 1.6-8.0 ng/mL .

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