

**PRODUCT INFORMATION**

<b>Clone ID</b>	DM86
<b>Target</b>	B7-2
<b>Synonyms</b>	CD86; B7-2; B70; CD28LG2; LAB72; MGC34413
<b>Host Species</b>	Rabbit
<b>Description</b>	Anti-B7-2 antibody(DM86); Rabbit mAb
<b>Delivery</b>	In Stock
<b>Uniprot ID</b>	P42081
<b>IgG type</b>	Rabbit IgG
<b>Clonality</b>	Monoclonal
<b>Reactivity</b>	Human
<b>Applications</b>	ELISA; Flow Cyt
<b>Recommended Dilutions</b>	ELISA 1:5000-10000; Flow Cyt 1:100
<b>Purification</b>	Purified from cell culture supernatant by affinity chromatography
<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>	This gene encodes a type I membrane protein that is a member of the immunoglobulin superfamily. This protein is expressed by antigen-presenting cells; and it is the ligand for two proteins at the cell surface of T cells; CD28 antigen and cytotoxic T-lymphocyte-associated protein 4. Binding of this protein with CD28 antigen is a costimulatory signal for activation of the T-cell. Binding of this protein with cytotoxic T-lymphocyte-associated protein 4 negatively regulates T-cell activation and diminishes the immune response. Alternative splicing results in several transcript variants encoding different isoforms.
<b>Usage</b>	Research use only



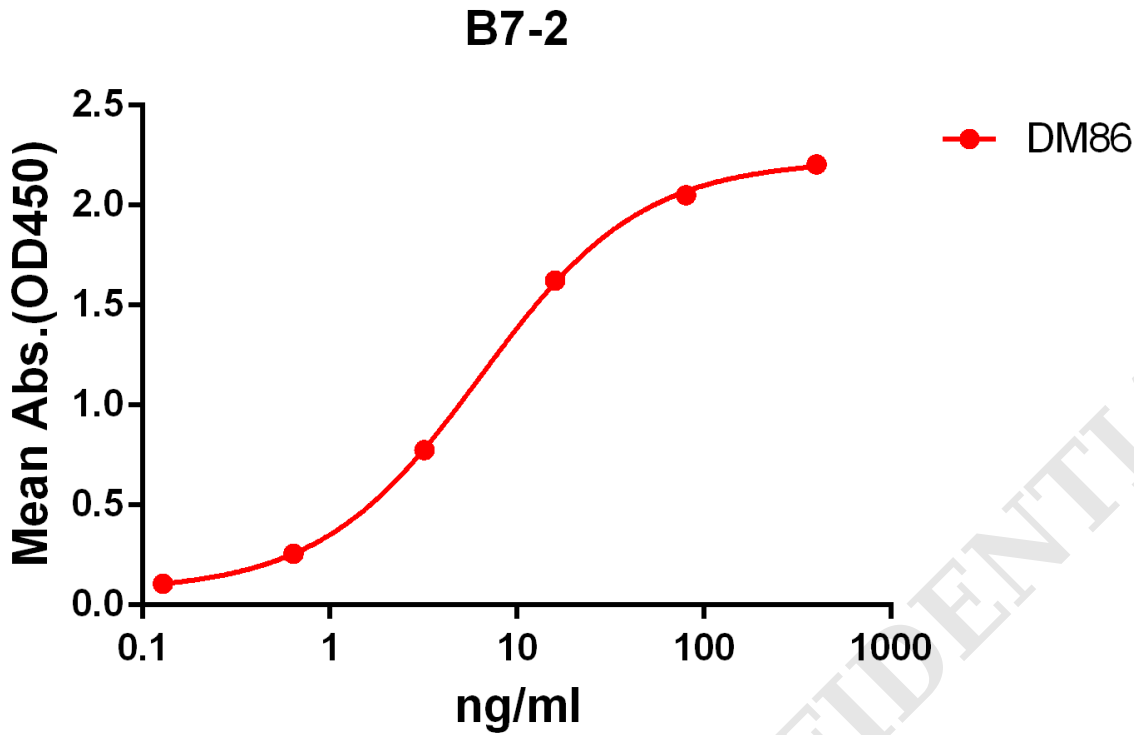


Figure 1. ELISA plate pre-coated by 2  $\mu\text{g/ml}$  (100  $\mu\text{l/well}$ ) Human B7-2 protein, mFc-His tagged protein PME100034 can bind Rabbit anti-B7-2 monoclonal antibody (clone: DM86) in a linear range of 1-100 ng/ml.

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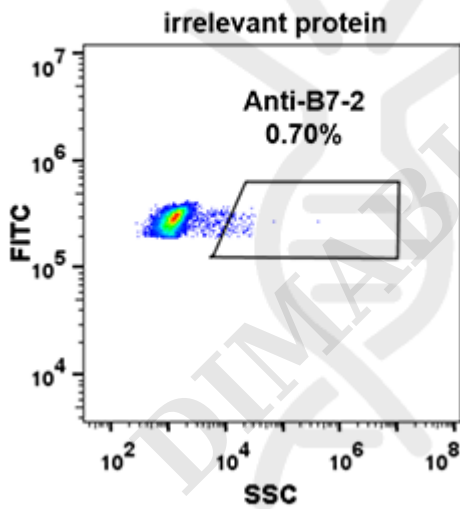


Figure 2. Expi 293 cell line transfected with irrelevant protein (A) and human B7-2 (B) were surface stained with Rabbit anti-B7-2 monoclonal antibody 1  $\mu\text{g/ml}$  (clone: DM86) followed by Alexa 488-conjugated anti-rabbit IgG secondary antibody.



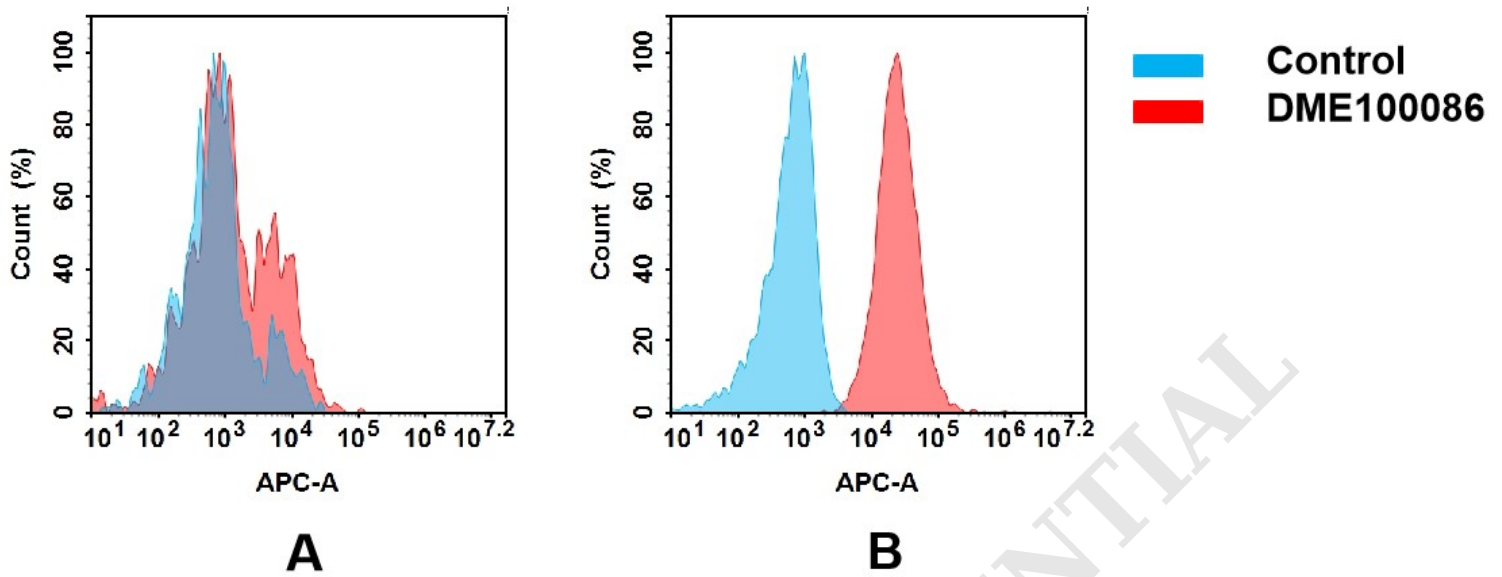


Figure 3. Flow cytometry analysis of antigen binding of rabbit anti-human B7-2 mAb(DME100086).

(A) DME100086 does not bind to 293T cells that do not express B7-2.

(B) A clear peak shift of DME100086 was seen compared to the control when incubated with B7-2-expressing Daudi cells, indicating strong binding of DME100086 to B7-2. Antibodies were incubated at 5  $\mu\text{g}/\text{mL}$

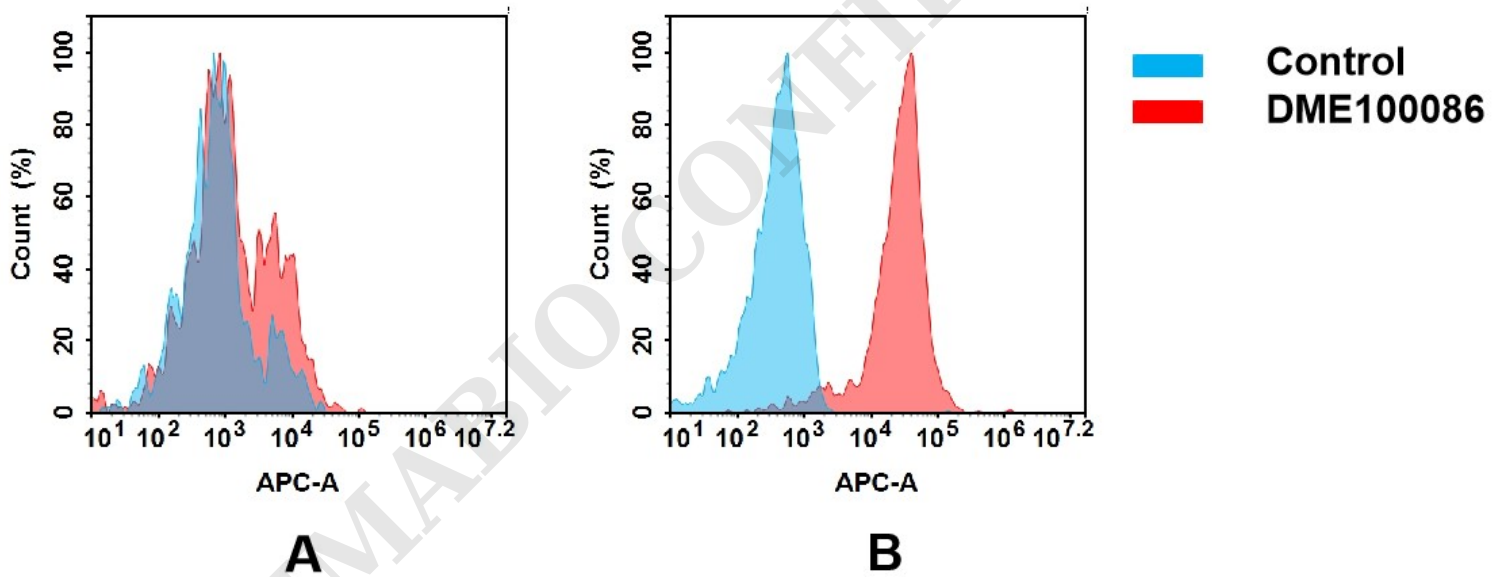


Figure 4. Flow cytometry analysis of antigen binding of rabbit anti-human B7-2 mAb(DME100086).

(A) DME100086 does not bind to 293T cells that do not express B7-2.

(B) A clear peak shift of DME100086 was seen compared to the control when incubated with B7-2-expressing Raji cells, indicating strong binding of DME100086 to B7-2. Antibodies were incubated at 5  $\mu\text{g}/\text{mL}$ .

