

Product datasheet for **TP724008**

B7-1 (CD80) Human Recombinant Protein

Product data:

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| Product Type: | Recombinant Proteins |
| Description: | Human B7-1 Protein, hFc Tag |
| Species: | Human |
| Expression Host: | HEK293 |
| Expression cDNA Clone or AA Sequence: | B7-1 [Val35-Asn242]+hFc [Glu99-Ala330] |
| Tag: | C-Human Fc |
| Predicted MW: | 50.0 kDa |
| Purity: | > 95% |
| Buffer: | Lyophilized from sterile PBS, pH 7.4. Normally 5% - 8% trehalose is added as protectants before lyophilization |
| Reconstitution Method: | Reconstitute with deionized water |
| Preparation: | Affinity purification |
| Applications: | ELISA, Flow Cyt |
| Storage: | Store the lyophilized protein at -20°C. After reconstitution, store the protein at -80°C for 12 months. Avoid repeated freezing and thawing. |
| Stability: | 12 months from date of despatch |
| Locus ID: | 941 |
| UniProt ID: | P33681 |
| Summary: | The protein encoded by this gene is a membrane receptor that is activated by the binding of CD28 or CTLA-4. The activated protein induces T-cell proliferation and cytokine production. This protein can act as a receptor for adenovirus subgroup B and may play a role in lupus neuropathy. |



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Product images:

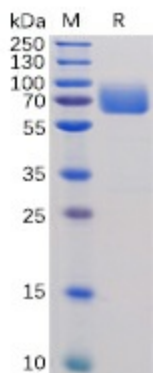


Figure 1. Human B7-1 Protein, hFc Tag on SDS-PAGE under reducing condition.

Human B7-1, hFc Tagged protein ELISA

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

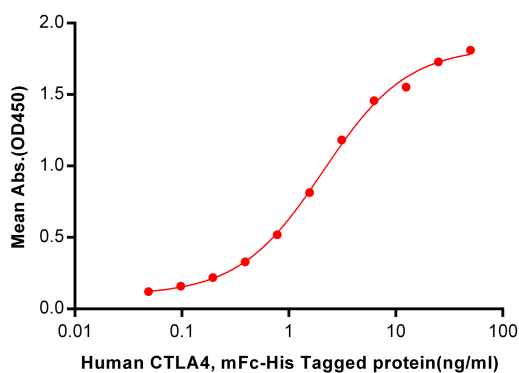


Figure 2. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human B7-1, hFc tagged protein (TP724008) can bind Human CTLA4, mFc-His tagged protein ([TP723940]) in a linear range of 0.048-2.094 ng/ml.

Human B7-1, hFc Tagged protein ELISA

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

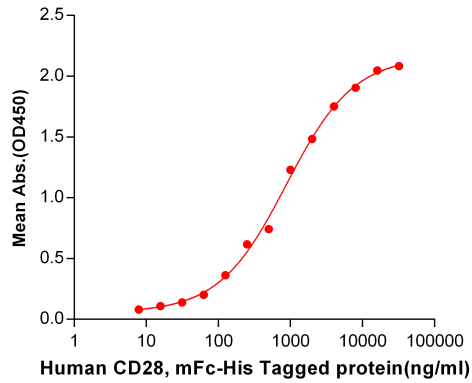


Figure 3. ELISA plate pre-coated by 2 µg/ml (100 µl/well) Human CD28, mFc-His tagged protein ([TP723937]) can bind Human B7-1, hFc tagged protein (TP724008) in a linear range of 125-4000 ng/ml.

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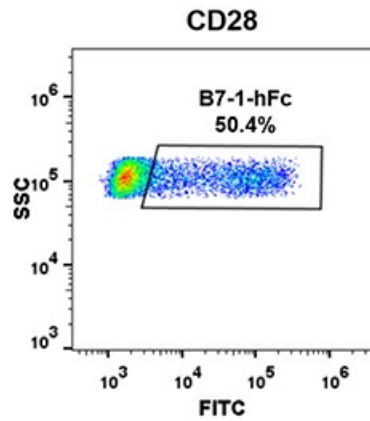


Figure 4. HEK293 cell line transfected with irrelevant protein (B) and human CD28 (A) were surface stained with Human B7-1 , hFc tagged protein (TP724008) 1 µg/ml followed by Alexa 488-conjugated anti-human IgG secondary antibody.