

Datasheet for ABIN6964082

CD80 Protein (CD80) (AA 35-242) (mFc-His Tag)[Go to Product page](#)**3** Images

Overview

Quantity:	100 µg
Target:	CD80
Protein Characteristics:	AA 35-242
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This CD80 protein is labelled with mFc-His Tag.

Product Details

Purpose:	Recombinant Human B7-1 Protein with C-terminal Mouse Fc and 6xHis tag
Specificity:	B7-1 (Val35-Asn242) mFc (Pro99-Lys330) 6xHis tag
Characteristics:	Extracellular Domain Protein
Purification:	Purified from cell culture supernatant by affinity chromatography
Purity:	The purity of the protein is greater than 95 % as determined by SDS-PAGE and Coomassie blue staining.

Target Details

Target:	CD80
Alternative Name:	B7-1 (CD80 Products)
Background:	The protein encoded by this gene is a membrane receptor that is activated by the binding of

Target Details

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.

Molecular Weight: predicted molecular mass of 50.9 kDa after removal of the signal peptide. The apparent molecular mass of B7-1-mFc-His is 70-130 kDa due to glycosylation.

Gene ID: 941

UniProt: [P33681](#)

Pathways: [TCR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [EGFR Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Positive Regulation of Immune Effector Process](#), [Cancer Immune Checkpoints](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Buffer: Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose is added as protectants before lyophilization.

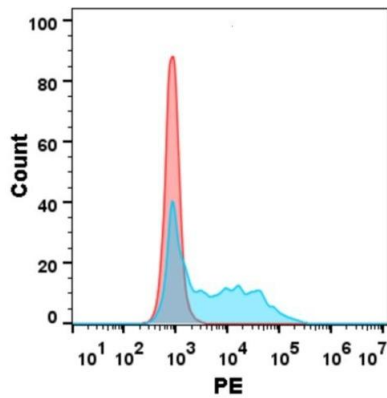
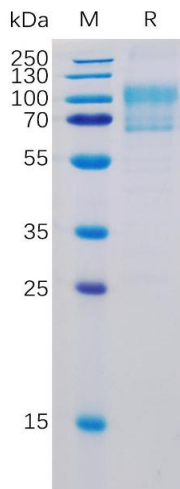
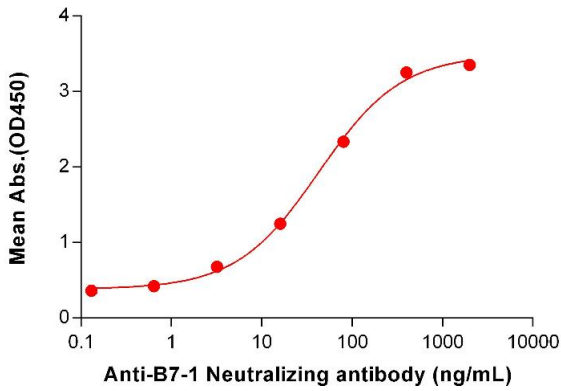
Storage: -20 °C, -80 °C

Storage Comment: 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.

Expiry Date: 12 months

Human B7-1, mFc-His tagged protein ELISA

0.1 µg of Human B7-1, mFc-His tagged protein per well



ELISA

Image 1. ELISA plate pre-coated by 1 µg/mL (100 µL/well) Human B7-1, mFc-His tagged protein (ABIN6964082, ABIN7042419 and ABIN7042420) can bind anti-B7-1 monoclonal antibody, Rabbit mAb clone: DM111 in a linear range of 0.13-80 ng/mL.

SDS-PAGE

Image 2. Human B7-1 Protein, mFc-His Tag on SDS-PAGE under reducing condition.

Flow Cytometry

Image 3. Flow cytometry analysis with 15 µg/mL Human B7-1 Protein, mFc-His tag (ABIN6964082, ABIN7042419 and ABIN7042420) on Expi293 cells transfected with human CD28 (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).