

### **Product datasheet for CF812246**

#### OriGene Technologies, Inc.

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## **B7-1 (CD80) Mouse Monoclonal Antibody [Clone ID: OTI11G5]**

### **Product data:**

**Product Type:** Primary Antibodies

Clone Name: OTI11G5

**Applications:** ELISA, FC, LMNX, WB **Recommended Dilution:** WB 1:500, FLOW 1:100

Reactivity: Human
Host: Mouse
Isotype: IgG1

Clonality: Monoclonal

Immunogen: Full length human recombinant protein of human CD80 (NP\_005182) produced in HEK293T

cell

Formulation: Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)

**Reconstitution Method:** For reconstitution, we recommend adding 100uL distilled water to a final antibody

concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)

**Purification:** Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography

(protein A/G)

Conjugation: Unconjugated

Storage: Store at -20°C as received.

**Stability:** Stable for 12 months from date of receipt.

**Gene Name:** CD80 molecule

Database Link: NP 005182

Entrez Gene 941 Human

P33681

**Background:** 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. [provided by RefSeq, Aug 2011]





**Synonyms:** B7; B7-1; B7.1; BB1; CD28LG; CD28LG1; LAB7

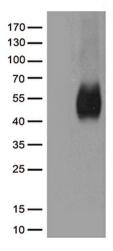
**Protein Families:** Druggable Genome, Transcription Factors, Transmembrane

Protein Pathways: Allograft rejection, Autoimmune thyroid disease, Cell adhesion molecules (CAMs), Graft-

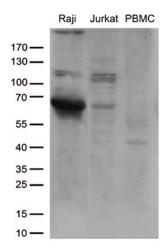
versus-host disease, Systemic lupus erythematosus, Toll-like receptor signaling pathway,

Type I diabetes mellitus, Viral myocarditis

# **Product images:**

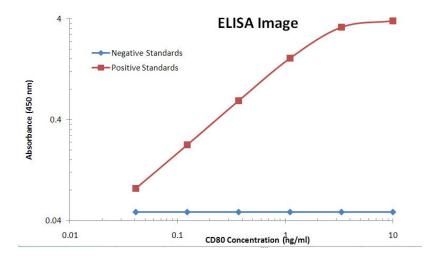


HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CD80 ([RC206540], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CD80 (1:500).

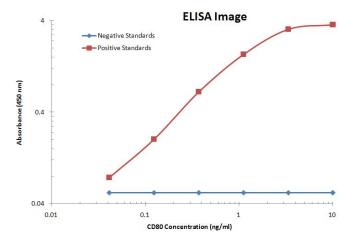


Western blot analysis of extracts (35ug) from cell lines and/or tissue lysates by using anti-CD80 monoclonal antibody (1:500).

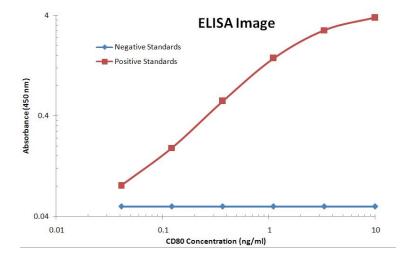




CD80 ELISA with 7D6 ([TA812242]) Capture and 11G5 ([TA812246]) Detection Antibodies. Substrate used: Recombinant Human CD80 ([TP700242])

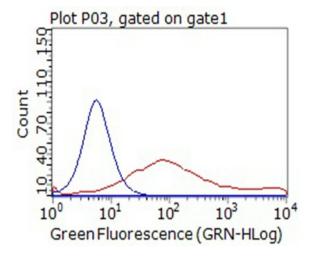


CD80 ELISA with 1G9 ([TA812243]) Capture and 11G5 ([TA812246]) Detection Antibodies. Substrate used: Recombinant Human CD80 ([TP700242])

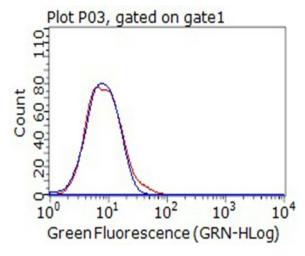


CD80 ELISA with 1A10 ([TA812244]) Capture and 11G5 ([TA812246]) Detection Antibodies. Substrate used: Recombinant Human CD80 ([TP700242])

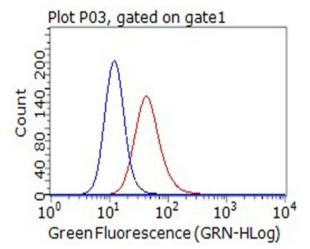




HEK293T cells transfected with either [RC206540] overexpress plasmid (Red) or IgG isotype control (Blue) were immunostained by anti-CD80 antibody ([TA812246]), and then analyzed by flow cytometry (1:100).

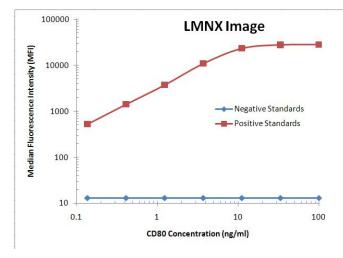


Flow cytometric Analysis of living Jurkat cells, using anti-CD80 antibody ([TA812246]), (Red), compared to an IgG isotype control, (Blue) (1:100).

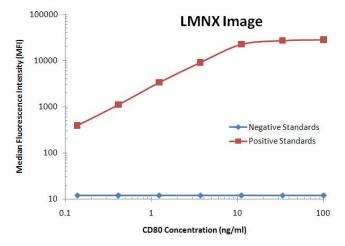


Flow cytometric Analysis of living Raji cells, using anti-CD80 antibody ([TA812246]), (Red), compared to an IgG isotype control, (Blue) (1:100).

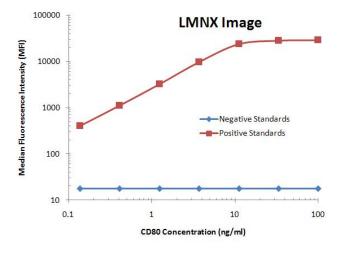




CD80 Luminex with 7D6 ([TA812242]) Capture and 11G5 ([TA812246]) Detection Antibodies. Substrate used: Recombinant Human CD80 ([TP700242])



CD80 Luminex with 1G9 ([TA812243]) Capture and 11G5 ([TA812246]) Detection Antibodies. Substrate used: Recombinant Human CD80 ([TP700242])



CD80 Luminex with 1A10 ([TA812244]) Capture and 11G5 ([TA812246]) Detection Antibodies. Substrate used: Recombinant Human CD80 ([TP700242])