

## Product datasheet for **CF812242**

### **B7-1 (CD80) Mouse Monoclonal Antibody [Clone ID: OTI7D6]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	OTI7D6
<b>Applications:</b>	ELISA, FC, LMNX, WB
<b>Recommended Dilution:</b>	WB 1:500, FLOW 1:100
<b>Reactivity:</b>	Human
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Full length human recombinant protein of human CD80 (NP_005182) produced in HEK293T cell.
<b>Formulation:</b>	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
<b>Reconstitution Method:</b>	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)
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Gene Name:</b>	CD80 molecule
<b>Database Link:</b>	<a href="#">NP_005182</a> <a href="#">Entrez Gene 941 Human P33681</a>
<b>Background:</b>	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]



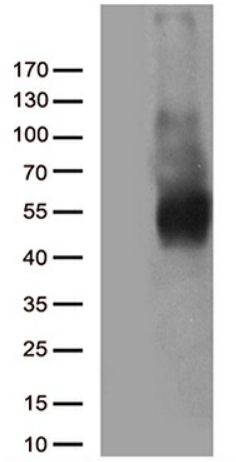
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**Synonyms:** B7; B7-1; B7.1; BB1; CD28LG; CD28LG1; LAB7

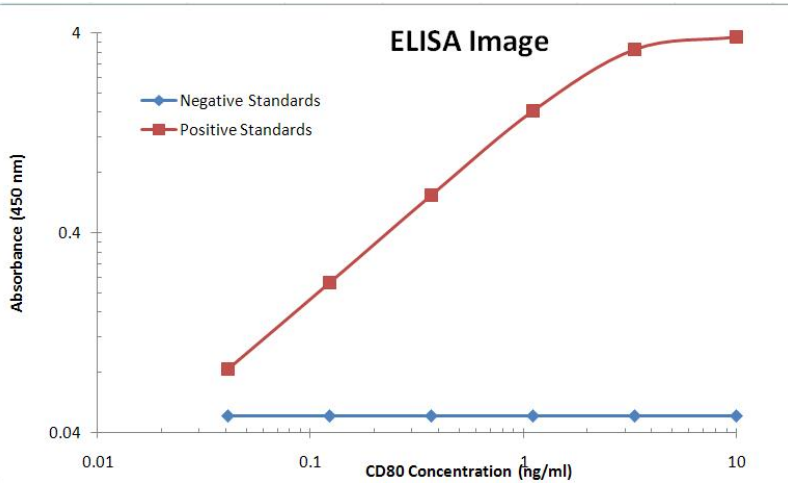
**Protein Families:** Druggable Genome, Transcription Factors, Transmembrane

**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

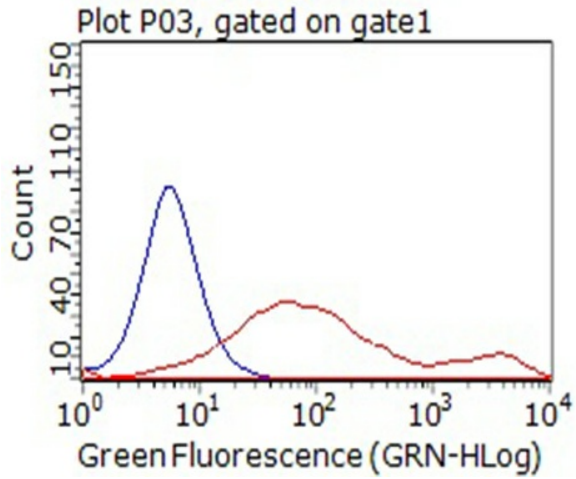
**Product images:**



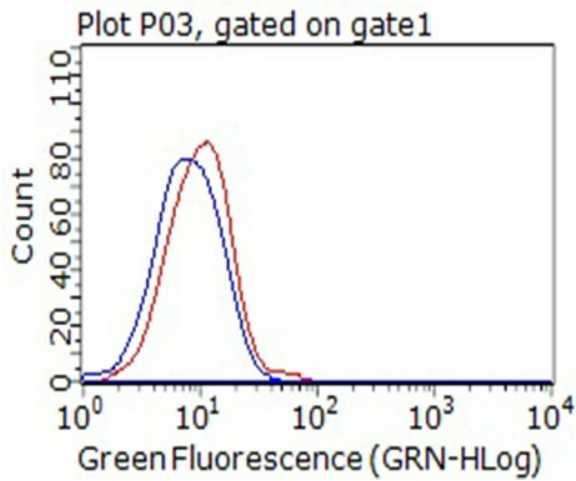
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CD80 ([RC206540], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CD80 (1:500).



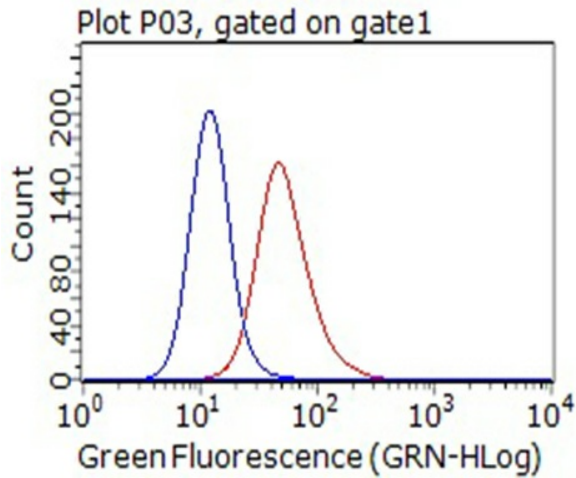
CD80 ELISA with 7D6 ([TA812242]) Capture and 11G5 ([TA812246]) Detection Antibodies. Substrate used: Recombinant Human CD80 ([TP700242])



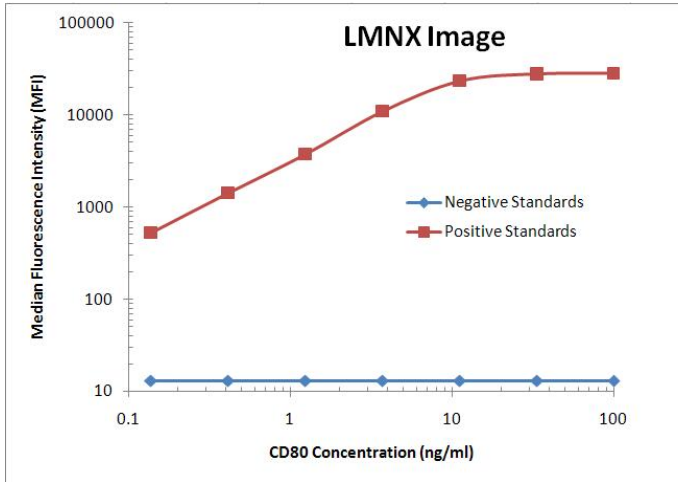
HEK293T cells transfected with either [RC206540] overexpress plasmid (Red) or IgG isotype control (Blue) were immunostained by anti-CD80 antibody ([TA812242]), and then analyzed by flow cytometry (1:100).



Flow cytometric Analysis of living Jurkat cells, using anti-CD80 antibody ([TA812242]), (Red), compared to an IgG isotype control, (Blue) (1:100).



Flow cytometric Analysis of living Raji cells, using anti-CD80 antibody ([TA812242]), (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])