

# **Product datasheet for TA501578**

#### OriGene Technologies, Inc.

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## B7-1 (CD80) Mouse Monoclonal Antibody [Clone ID: OTI1E9]

#### **Product data:**

**Product Type:** Primary Antibodies

Clone Name: OTI1E9

Applications: FC, IF, WB

Recommended Dilution: WB 1:200~500, IF 1:100, FLOW 1:100

Reactivity: Human, Dog, Rat, Monkey

Host: Mouse Isotype: IgG1

Clonality: Monoclonal

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

cell

**Formulation:** PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.

**Concentration:** 0.44 mg/ml

**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.

**Predicted Protein Size:** 29.3 kDa

Gene Name: CD80 molecule

Database Link: NP 005182

Entrez Gene 25408 RatEntrez Gene 403765 DogEntrez Gene 732518 MonkeyEntrez Gene 941

<u>Human</u> P33681

**Background:** The B-lymphocyte activation antigen B7-1 (formerly referred to as B7) provides regulatory

signals for T lymphocytes as a consequence of binding to the CD28 (MIM 186760) and CTLA4

(MIM 123890) ligands of T cells. [supplied by OMIM]

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



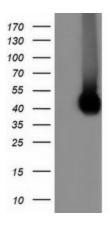


**Protein Families:** Druggable Genome, Transcription Factors, Transmembrane

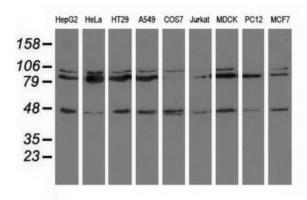
**Protein Pathways:** Allograft rejection, Autoimmune thyroid disease, Cell adhesion molecules (CAMs), Graft-versus-host disease, Systemic lupus erythematosus, Toll-like receptor signaling pathway,

Type I diabetes mellitus, Viral myocarditis

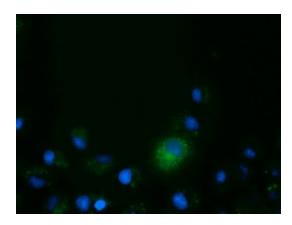
### **Product images:**



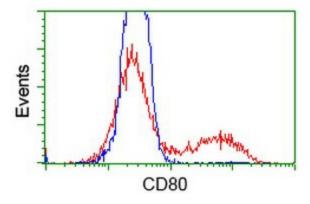
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CD80 ([RC206540], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CD80.



Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-CD80 monoclonal antibody.



Anti-CD80 mouse monoclonal antibody (TA501578) immunofluorescent staining of COS7 cells transiently transfected by pCMV6-ENTRY CD80 ([RC206540]).



HEK293T cells transfected with either [RC206540] overexpress plasmid (Red) or empty vector control plasmid (Blue) were immunostained by anti-CD80 antibody (TA501578), and then analyzed by flow cytometry.