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Product datasheet for CF501578

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:	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.
Predicted Protein Size:	29.3 kDa
Gene Name:	Homo sapiens CD80 molecule (CD80), mRNA.
Database Link:	NP_005182 Entrez Gene 25408 RatEntrez Gene 403765 DogEntrez Gene 732518 MonkeyEntrez Gene 941 Human P33681

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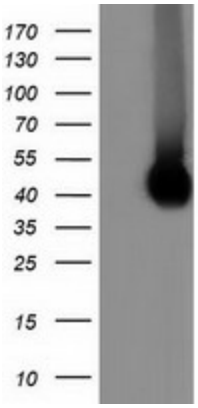
Background: The B-lymphocyte activation antigen B7-1 (formerly referred to as B7) provides regulatory signals for T lymphocytes as a consequence of binding to the CD28 (MIM 186760) and CTLA4 (MIM 123890) ligands of T cells. [supplied by OMIM]

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

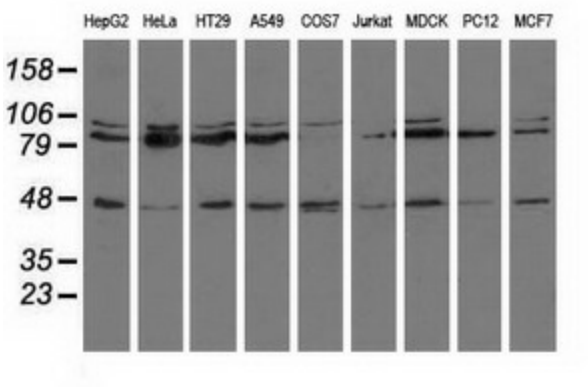
Protein Families: Druggable Genome, Transcription Factors, Transmembrane

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

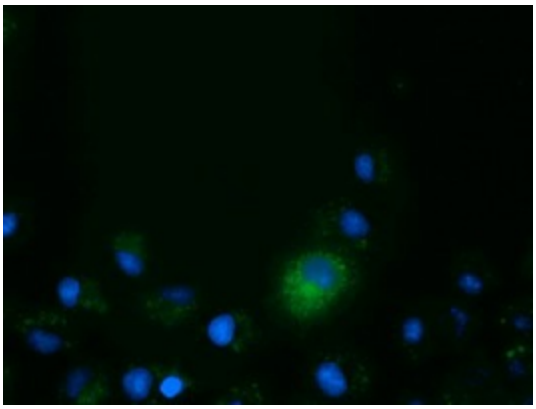
Product images:



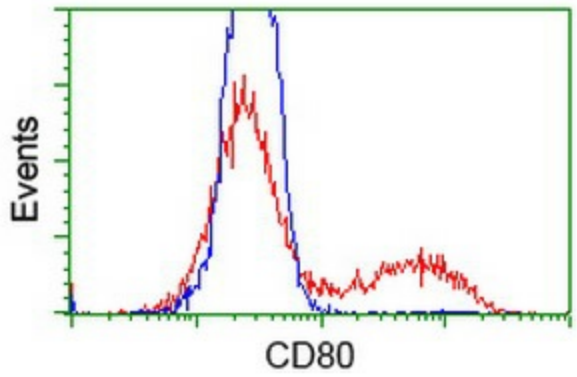
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY CD80 ([RC206540], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-CD80.



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.