

For Research Use Only

CD80/B7-1 Polyclonal antibody

Catalog Number: 14292-1-AP **10 Publications**



Basic Information

Catalog Number: 14292-1-AP	GenBank Accession Number: BC042665	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 700 µg/ml by Nanodrop and 133 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 941	Recommended Dilutions: WB 1:500-1:2000
Source: Rabbit	Full Name: CD80 molecule	
Isotype: IgG	Calculated MW: 33 kDa	
Immunogen Catalog Number: AG5615	Observed MW: 60 kDa	

Applications

Tested Applications: FC, WB, ELISA	Positive Controls: WB : Raji cells, RAW 264.7 cells, human peripheral blood leukocyte, Ramos cells
Cited Applications: Cell treatment, FC, IF, IHC, WB	
Species Specificity: human, mouse	
Cited Species: human, mouse	

Background Information

CD80 (also known as B7-1) is a type I membrane protein that is a member of the immunoglobulin superfamily, with an extracellular immunoglobulin constant-like domain and a variable-like domain required for receptor binding. It is expressed on antigen-presenting cells (APCs), including B cells, dendritic cells, monocytes, and macrophages. CD80 is the receptor for the proteins CD28 and CTLA-4 found on the surface of T-cells. It is involved in the costimulatory signal essential for T-lymphocyte activation. T-cell proliferation and cytokine production is induced by the binding of CD28, binding to CTLA-4 has opposite effects and inhibits T-cell activation. CD80 also acts as a cellular attachment receptor for adenovirus subgroup B. (PMID: 7545666; 12015893; 16920215)

Notable Publications

Author	Pubmed ID	Journal	Application
Haoran Wang	35087966	Bioact Mater	FC
Jiayu Zhang	35530972	Int J Nanomedicine	Cell treatment
Na Xu	35357136	ACS Appl Mater Interfaces	IHC

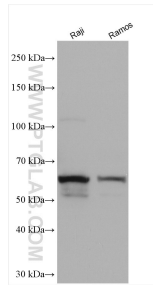
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

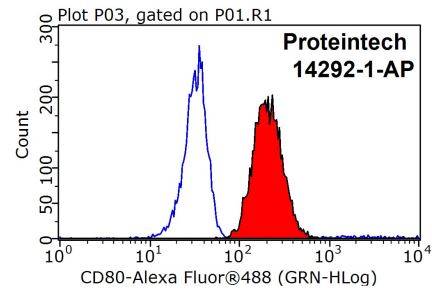
For technical support and original validation data for this product please contact:
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 14292-1-AP (CD80/B7-1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



1×10^6 Raji cells were stained with 0.2ug CD80/B7-1 antibody (14292-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.