

For Research Use Only

# CD80 Monoclonal antibody

Catalog Number: 66406-1-Ig **78 Publications**



## Basic Information

Catalog Number: 66406-1-Ig	GenBank Accession Number: BC042665	Purification Method: Protein G purification
Source: Mouse	GeneID (NCBI): 941	CloneNo.: 1E2F10
Isotype: IgG1	UNIPROT ID: P33681	Recommended Dilutions: WB: 1:1000-1:4000
Immunogen Catalog Number: AG5615	Full Name: CD80 molecule	
	Calculated MW: 33 kDa	
	Observed MW: 68 kDa	

## Applications

Tested Applications: WB, ELISA	Positive Controls: WB : Raji cells, DC2.4 cells, Daudi cells
Cited Applications: WB, IF	
Species Specificity: human, mouse, pig	
Cited Species: human, mouse, rat, pig, rabbit	

## 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
Yan Yang	34582523	Biomater Sci	
Chenxia Juan	30243953	Int J Biochem Cell Biol	WB
Yuanhang Li	30411299	Pathol Oncol Res	WB

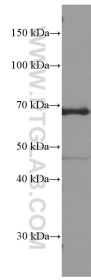
## Storage

Storage:  
Store at -20°C. Stable for one year after shipment.  
Storage Buffer:  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:  
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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## Selected Validation Data



Raji cells were subjected to SDS PAGE followed by western blot with 66406-1-Ig (CD80 / B7-1 antibody at dilution of 1:2000 incubated at room temperature for 1.5 hours.