

## CD80/B7-1 Monoclonal antibody

Catalog Number: 66406-1-Ig 28 Publications

## Basic Information

Catalog Number: 66406-1-Ig	GenBank Accession Number: BC042665	Purification Method: Protein A purification
Size: 1500 µg/ml	GeneID (NCBI): 941	CloneNo.: 1E2F10
Source: Mouse	UNIPROT ID: P33681	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500
Isotype: IgG1	Full Name: CD80 molecule	
Immunogen Catalog Number: AG5615	Calculated MW: 33 kDa	
	Observed MW: 68 kDa	

## Applications

Tested Applications: IHC, WB, ELISA	Positive Controls:
Cited Applications: FC, IF, IHC, WB	WB : Raji cells, DC2.4 cells, Daudi cells
Species Specificity: human, mouse, pig	IHC : human tonsillitis tissue,
Cited Species: human, rat, mouse, rabbit, pig	
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	

## 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	FC
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 pH 7.3.  
Aliquoting is unnecessary for -20°C storage

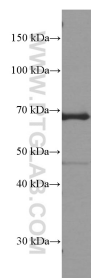
For technical support and original validation data for this product please contact:

T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)W: [ptgcn.com](http://ptgcn.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

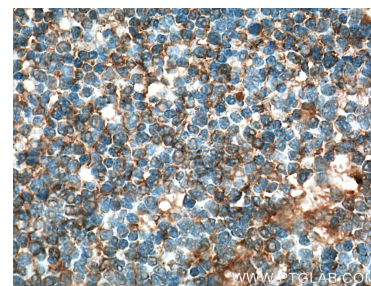
## Selected Validation Data



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.



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66406-1-Ig (CD80 / B7-1 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human tonsillitis tissue slide using 66406-1-Ig (CD80 / B7-1 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).