

For Research Use Only

# CD80 Recombinant antibody

Catalog Number: 86532-1-RR



## Basic Information

<b>Catalog Number:</b> 86532-1-RR	<b>GenBank Accession Number:</b> GeneID (NCBI): 25408	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>UNIPROT ID:</b> Q62680	<b>CloneNo.:</b> 250725H4
<b>Source:</b> Rabbit	<b>Full Name:</b> Cd80 molecule	<b>Recommended Dilutions:</b> WB: 1:1000-1:6000 IF/ICC: 1:200-1:800
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 33 kDa	
<b>Immunogen Catalog Number:</b> EG3841	<b>Observed MW:</b> 60-70 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> mouse, rat	<b>WB :</b> NR8383 cells, C2C12 cells, RAW 264.7 cells <b>IF/ICC :</b> C2C12 cells,

## 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)

## Storage

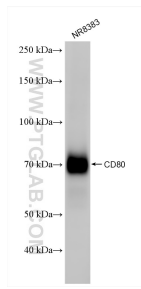
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

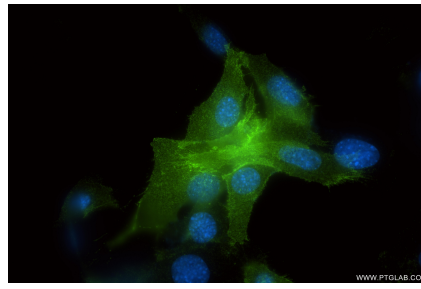
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## Selected Validation Data



NR8383 cells were subjected to SDS PAGE followed by western blot with 86532-1-RR (CD80 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed C2C12 cells using CD80 antibody (86532-1-RR, Clone: 250725H4) at dilution of 1:400 and CoraLite® 488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).