

For Research Use Only

# CD40 Polyclonal antibody

Catalog Number: 31446-1-AP



## Basic Information

<b>Catalog Number:</b> 31446-1-AP	<b>GenBank Accession Number:</b> NM_011611.2	<b>Purification Method:</b> Antigen affinity Purification
<b>Size:</b> 150ul , Concentration: 750 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 21939	<b>Recommended Dilutions:</b> WB 1:500-1:2000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P27512-1	
<b>Isotype:</b> IgG	<b>Full Name:</b> CD40 antigen	
	<b>Calculated MW:</b> 32 kDa	
	<b>Observed MW:</b> 38 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b> WB : J774A.1 cells, RAW 264.7 cells
<b>Species Specificity:</b> mouse	

## Background Information

CD40, also known as TNFRSF5 or Bp50, is a member of the tumor necrosis factor (TNF) receptor (TNFR) family. It is expressed on a wide range of cell types including B cells, macrophages, and dendritic cells (PMID: 19426221). CD40 acts as a receptor for TNFSF5/CD40LG, which is expressed on activated T cells. This interaction is essential for B cell proliferation, expression of activation markers, immunoglobulin production, and isotype switching (PMID: 8809473). This interaction is also crucial for the formation of memory B cells and germinal centers, and signaling through CD40 prevents apoptosis of germinal center B cells.

## Storage

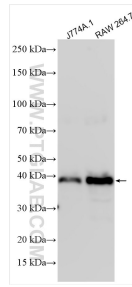
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

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 31446-1-AP (CD40 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.