

For Research Use Only

# CD40 Recombinant antibody

Catalog Number:83972-5-RR



## Basic Information

<b>Catalog Number:</b> 83972-5-RR	<b>GenBank Accession Number:</b> NM_011611.2	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 21939	<b>CloneNo.:</b> 240874B2
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P27512-1	<b>Recommended Dilutions:</b> WB 1:5000-1:50000
<b>Isotype:</b> IgG	<b>Full Name:</b> CD40 antigen	
	<b>Calculated MW:</b> 32 kDa	
	<b>Observed MW:</b> 40-45 kDa	

## Applications

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

## Background Information

CD40, also named as TNFRSF5 and Bp50, is a receptor for TNFSF5/CD40LG. It is a member of the TNFR superfamily and is responsible for the efficient activation of cell-mediated and humoral immune responses via activated T cells and B cells respectively. Defects in CD40 lead to hyper-IgM immunodeficiency syndrome type 3 (HIGM3) (PMID: 11675497). This is an autosomal recessive disorder that includes the inability of B cells to undergo isotype switching, a key step in the final differentiation of the humoral immune response, and an inability to mount an antibody-specific immune response.

## 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**

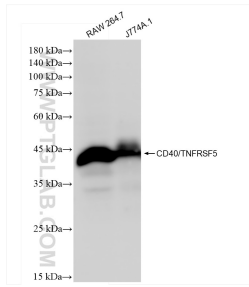
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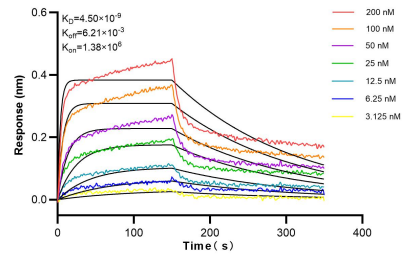
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 83972-5-RR (CD40 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 83972-5-RR against Mouse CD40 were performed. The affinity constant is 4.50 nM.