

For Research Use Only

# CD40L/CD154 Recombinant antibody

Catalog Number:83884-3-RR



## Basic Information

<b>Catalog Number:</b> 83884-3-RR	<b>GenBank Accession Number:</b> NM_011616.2	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 900 ug/ml	<b>GeneID (NCBI):</b> 21947	<b>CloneNo.:</b> 240743F5
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P27548	<b>Recommended Dilutions:</b> WB 1:2000-1:18000 IHC 1:50-1:500
<b>Isotype:</b> IgG	<b>Full Name:</b> CD40 ligand	
	<b>Calculated MW:</b> 29 kDa	
	<b>Observed MW:</b> 32 kDa	

## Applications

**Tested Applications:**  
WB, IHC, ELISA

**Species Specificity:**  
mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

WB : J774A.1 cells, CTLL-2 cells

IHC : mouse spleen tissue,

## Background Information

The CD40 ligand (CD40L, TRAP, CD154), a member of the TNF superfamily of ligands, is expressed as either a 33 kDa transmembrane homologue or an 18 kDa soluble form (sCD154). CD40L is primarily expressed on activated CD4+ T cells and a small proportion of CD8+ T cells and platelets. It binds to CD40 on antigen-presenting cells (APC), which leads to many effects depending on the target cell type. Recent studies have suggested that CD40/CD40L interactions regulate oxidative stress and affect various signaling pathways in both the immunological and the cardiovascular systems. The CD40/CD40L system is also involved in tumorigenesis.

## 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:

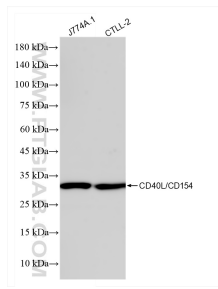
T: 4006900926

E: Proteintech-CN@ptglab.com

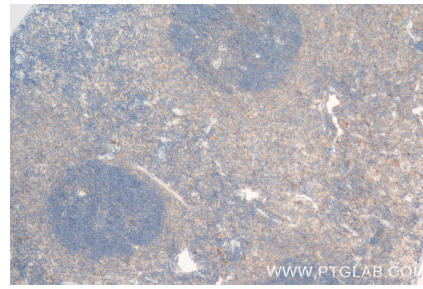
W: ptgcn.com

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

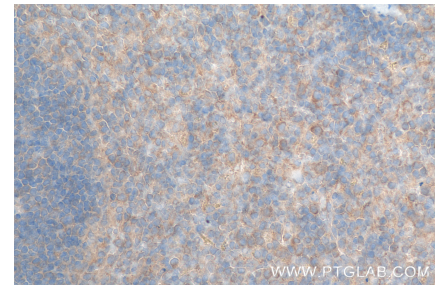
## Selected Validation Data



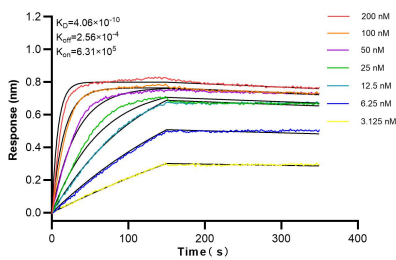
Various lysates were subjected to SDS PAGE followed by western blot with 83884-3-RR (CD40L/CD154 antibody) at dilution of 1:9000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse spleen tissue slide using 83884-3-RR (CD40L/CD154 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 mouse spleen tissue slide using 83884-3-RR (CD40L/CD154 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Biolayer interferometry (BLI) kinetic assays of 83884-3-RR against Mouse CD40L/CD154 were performed. The affinity constant is 0.406 nM.