

For Research Use Only

# Anti-Mouse CD40L/CD154 Rabbit Recombinant Antibody

Catalog Number: 98120-1-RR



## Basic Information

<b>Catalog Number:</b> 98120-1-RR	<b>GenBank Accession Number:</b> NM_011616.2	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, 1000 µg/ml	<b>GeneID (NCBI):</b> 21947	<b>CloneNo.:</b> 240743E6
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> P27548	
<b>Isotype:</b> IgG	<b>Full Name:</b> CD40 ligand	
	<b>Calculated MW:</b> 29 kDa	

## Applications

**Tested Applications:**  
FC

**Species Specificity:**  
mouse

## Background Information

The CD40 ligand (CD40L, TRAP, CD154), a member of the TNF superfamily of ligands, is expressed as either a 33-kd transmembrane homologue or 18-kd soluble form (sCD154). CD40L is primarily expressed on activated CD4+ T cells and on 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. It has been 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. Its expression is tightly regulated, and abnormal levels of CD40L are associated with the pathogenesis of atheromatous plaque destabilization and thrombotic events. Multiple mutations in CD40LG gene have been identified that are associated with hyper-IgM immunodeficiency syndrome type 1.

## Storage

**Storage:**  
Store at 2 - 8°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.09% sodium azide, pH 7.3.

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

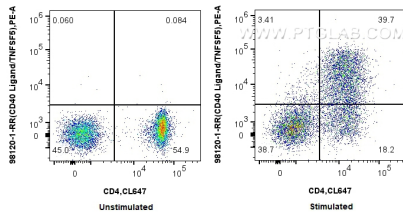
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

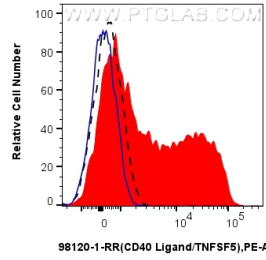
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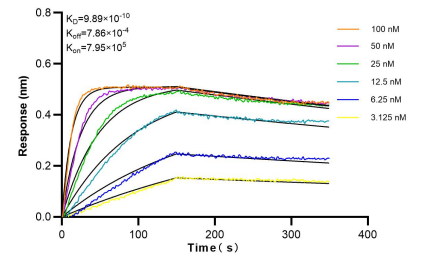
## Selected Validation Data



$1 \times 10^6$  untreated or PMA and ionomycin treated mouse CD3+ T cells were surface stained with 0.25  $\mu$ g Anti-Mouse CD40L/CD154 Rabbit Recombinant Antibody (98120-1-RR, Clone: 240743E6) and PE-conjugated Goat Anti-Rabbit IgG. Cells were co-stained with CoraLite® Plus 647 Anti-Mouse CD4. Cells were not fixed.



$1 \times 10^6$  PMA and ionomycin treated mouse CD3+ T cells were surface stained with 0.25  $\mu$ g Anti-Mouse CD40L/CD154 Rabbit Recombinant Antibody (98120-1-RR, Clone: 240743E6) (red) or Isotype Control (blue) and PE-conjugated Goat Anti-Rabbit IgG.  $1 \times 10^6$  untreated mouse CD3+ T cells were surface stained with 0.25  $\mu$ g Anti-Mouse CD40L/CD154 Rabbit Recombinant Antibody (98120-1-RR, Clone: 240743E6) and PE-conjugated Goat Anti-Rabbit IgG (black,



Bi-layer interferometry (BLI) kinetic assays of 98120-1-RR against Mouse CD40L/CD154 were performed. The affinity constant is 0.989 nM.