

For Research Use Only

# Anti-Mouse CD154 (MR1)

Catalog Number: 65129-1-Ig



## Basic Information

<b>Catalog Number:</b> 65129-1-Ig	<b>GenBank Accession Number:</b> BC119225	<b>Purification Method:</b> Affinity purification
<b>Size:</b> 100ug, 0.5 mg/ml	<b>GeneID (NCBI):</b> 21947	<b>CloneNo.:</b> MR1
<b>Source:</b> Armenian Hamster	<b>Full Name:</b> CD40 ligand	
<b>Isotype:</b> IgG		

## 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.

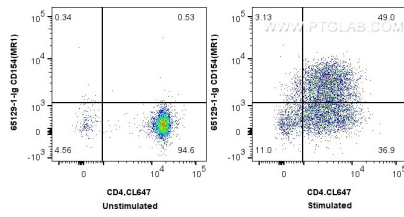
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## Selected Validation Data



$1 \times 10^6$  unstimulated or PMA and ionomycin stimulated (overnight) mouse CD4<sup>+</sup> T cells were surface co-stained with CoraLite® Plus 647 Anti-Mouse CD4 (GK1.5) and 0.25  $\mu$ g Anti-Mouse CD154 (65129-1-Ig, Clone: MR1) and FITC anti-Armenian Hamster IgG at dilution 1:100. Cells were not fixed.