

For Research Use Only

# PE Anti-Mouse CD40L/CD154 (MR1)

Catalog Number: PE-65129



## Basic Information

Catalog Number:

PE-65129

Size:

100ug, 0.2 mg/ml

Source:

Armenian Hamster

Isotype:

IgG

GenBank Accession Number:

BC119225

GeneID (NCBI):

21947

UNIPROT ID:

P27548

Full Name:

CD40 ligand

Purification Method:

Affinity purification

CloneNo.:

MR1

Excitation/Emission maxima wavelengths:

496 nm, 565 nm / 578 nm

## 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<sup>+</sup> T cells and on a small proportion of CD8<sup>+</sup> 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. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 0.1% sodium azide and 0.5% BSA.

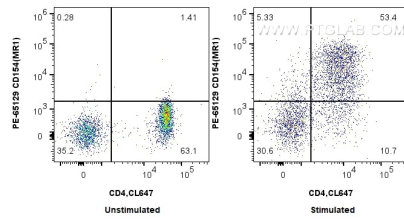
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## Selected Validation Data



1x10<sup>6</sup> unstimulated or Cell Stimulation Cocktail stimulated (overnight) mouse splenocytes were surface stained with 0.25 ug PE Anti-Mouse CD154 (MR1) (PE-65129, Clone: MR1) and 0.25 ug CoraLite® Plus 647 Anti-Mouse CD4 (GK1.5) (CL647-65104, Clone: GK1.5). Cells were not fixed.