

For Research Use Only

# PE Anti-Human CD154 (24-31)

Catalog Number: PE-65156



## Basic Information

**Catalog Number:**

PE-65156

**Size:**

100tests , 10 µl/test

**Source:**

Mouse

**Isotype:**

Mouse IgG1

**GenBank Accession Number:**

BC071754

**GeneID (NCBI):**

959

**Full Name:**

CD40 ligand

**Calculated MW:**

261 aa, 29 kDa

**Purification Method:**

The purified antibody is conjugated with R-phycoerythrin (PE) under optimum conditions. The conjugate is purified by size-exclusion chromatography.

**CloneNo.:**

24-31

## Applications

**Tested Applications:**

FC

**Species Specificity:**

Human, Non-human primates

## 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. Avoid exposure to light.

**Storage Buffer:**

PBS with 0.1% sodium azide.

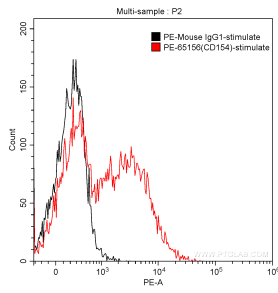
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## Selected Validation Data



$1 \times 10^6$  PMA (50 ng/ml) and ionomycin (1  $\mu$ g/ml)-stimulated human PBMCs (5 hours) were surface stained with 10  $\mu$ l PE Anti-Human CD154 (PE-65156, Clone: 24-31) (red) or isotype control antibody (black). Samples were not fixed.