

For Research Use Only

FcZero-rAb™ PE-Cyanine5.5 Anti-Mouse CD40L/CD154 Rabbit Recombinant Antibody

Catalog Number: PY5P5-FcA98120



Basic Information

Catalog Number:

PY5P5-FcA98120

Size:

100ug, 200 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG0990

GenBank Accession Number:

NM_011616.2

GeneID (NCBI):

21947

UNIPROT ID:

P27548

Full Name:

CD40 ligand

Calculated MW:

29 kDa

Purification Method:

Protein A purification

CloneNo.:

240743E6

Recommended Dilutions:

FC: 0.25 ug per 10⁶ cells in a 100 µl suspension

Excitation/Emission maximum wavelengths:

496 nm, 565 nm / 692 nm

Applications

Tested Applications:

FC

Species Specificity:

mouse

Positive Controls:

FC : PMA and ionomycin treated mouse CD3+ T cells,

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. Stable for one year after shipment.

Storage Buffer:

PBS with 0.09% sodium azide, pH7.3

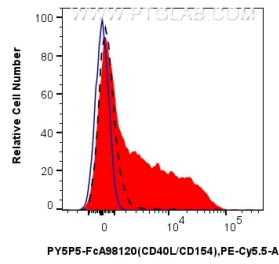
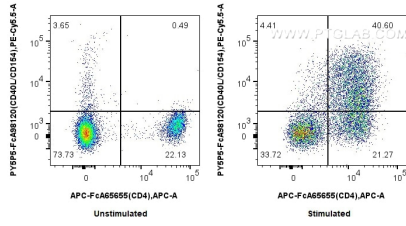
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Selected Validation Data



1x10⁶ untreated or PMA and ionomycin treated mouse CD3⁺ T cells were surface stained with FcZero-rAbTM APC Anti-Mouse CD4 (RM4-4) and 0.25 ug PE-Cyanine5.5 Anti-Mouse CD40L/CD154 Rabbit RecAb (PY5P5-FcA98120, Clone:240743E6). Cells were incubated with MonoZeroTM Monocytes blocking prior to staining. Cells were not fixed.

1x10⁶ PMA and ionomycin treated mouse CD3⁺ T cells were surface stained with 0.25 ug PE-Cyanine5.5 Anti-Mouse CD40L/CD154 Rabbit RecAb (PY5P5-FcA98120, Clone: 240743E6) (red) or FcZero-rAbTM PE-Cyanine5.5 Rabbit IgG Isotype Control Recombinant Antibody (PY5P5-FcA98136, Clone: 240953C9) (blue). 1x10⁶ untreated mouse splenocytes were surface stained with 0.25 ug PE-Cyanine5.5 Anti-Mouse CD40L/CD154 Rabbit RecAb (PY5P5-

