

CoraLite® Plus 647 Anti-Mouse CD40L/CD154 (MR1)

Catalog Number: **CL647-65129**

Basic Information

Catalog Number:

CL647-65129

Size:

100ug, 500 µg/ml

Source:

Armenian Hamster

Isotype:

IgG

GenBank Accession Number:

BC119225

GeneID (NCBI):

21947

Full Name:

CD40 ligand

Purification Method:

Affinity purification

CloneNo.:

MR1

Excitation/Emission maxima wavelengths:

654 nm / 674 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⁺ 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

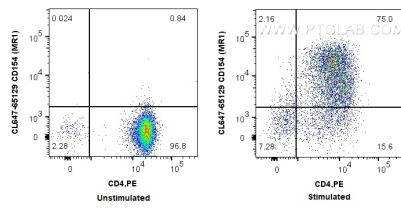
Storage:

Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 0.1% sodium azide and 0.5% BSA, pH 7.3.

Selected Validation Data



1X10⁶ unstimulated or Cell Stimulation Cocktail stimulated (overnight) BALB/c mouse CD4⁺ T cells were surface co-stained with PE Anti-Mouse CD4 (GK1.5) and 0.5 ug CoraLite® Plus 647 Anti-Mouse CD154 (CL647-65129, Clone: MR1). Cells were not fixed.