

For Research Use Only

# CoraLite® Plus 647 Anti-Human CD40 Rabbit scFv Antibody

Catalog Number: CL647-SF98191



## Basic Information

|                                                               |                                                                       |                                                                                               |
|---------------------------------------------------------------|-----------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Catalog Number:</b><br>CL647-SF98191                       | <b>GenBank Accession Number:</b><br>NM_001250.6                       | <b>Purification Method:</b><br>Affinity purification                                          |
| <b>Size:</b><br>100ug , Concentration: 500 ug/ml by Nanodrop; | <b>GeneID (NCBI):</b><br>958                                          | <b>CloneNo.:</b><br>241760A9                                                                  |
| <b>Source:</b><br>Rabbit                                      | <b>ENSEMBL Gene ID:</b><br>ENSG00000101017                            | <b>Recommended Dilutions:</b><br>FC: 0.25 ug per 10 <sup>6</sup> cells in a 100 µl suspension |
| <b>Type:</b><br>scFv                                          | <b>Full Name:</b><br>CD40 molecule, TNF receptor superfamily member 5 | <b>Excitation/Emission maxima wavelengths:</b><br>654 nm / 674 nm                             |
| <b>Immunogen Catalog Number:</b><br>EG1797                    | <b>Calculated MW:</b><br>31kDa                                        |                                                                                               |

## Applications

|                                      |                                                |
|--------------------------------------|------------------------------------------------|
| <b>Tested Applications:</b><br>FC    | <b>Positive Controls:</b><br>FC : human PBMCs, |
| <b>Species Specificity:</b><br>human |                                                |

## Background Information

CD40, also named as TNFRSF5 and Bp50, is a receptor for TNFSF5/CD40LG. It is a member of the TNFR superfamily and is responsible for the efficient activation of cell-mediated and humoral immune responses via activated T cells and B cells, respectively. Defects in CD40 lead to hyper-IgM immunodeficiency syndrome type 3 (HIGM3) (PMID: 11675497). This is an autosomal recessive disorder that includes the inability of B cells to undergo isotype switching, a key step in the final differentiation of the humoral immune response, and an inability to mount an antibody-specific immune response.

## Storage

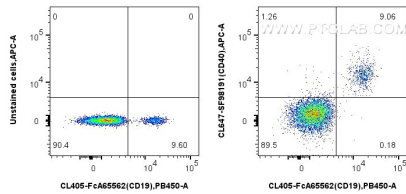
**Storage:**  
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
50mM HEPES, 150mM NaCl, 5mM EDTA, 0.1% CHAPS, 10% Sucrose and 0.1% Proclin300, pH7.3

\*\*\* 20ul sizes contain 0.1% BSA

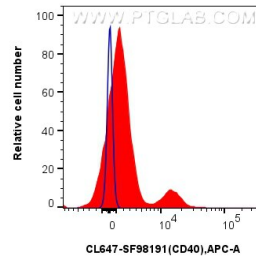
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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## Selected Validation Data



1x10<sup>6</sup> human PBMCs were surface stained with CoraLite® Plus 405 Anti-Human CD19 (4G7), and 0.25 ug CoraLite® Plus 647 Anti-Human CD40 Rabbit scFv Antibody (CL647-SF98191, Clone: 241760A9) or unstained. Cells were not fixed. Lymphocytes were gated.



1x10<sup>6</sup> human PBMCs were surface stained with 0.25 ug CoraLite® Plus 647 Anti-Human CD40 Rabbit scFv Antibody (CL647-SF98191, Clone: 241760A9) (red), or unstained (blue). Cells were not fixed. Lymphocytes were gated.