

For Research Use Only

# FcZero-rAb® PE-CoraLite® Plus 594 Anti-Mouse CD80 Rabbit Recombinant Antibody

Catalog Number: PCL594-FcA98158



## Basic Information

<b>Catalog Number:</b> PCL594-FcA98158	<b>GenBank Accession Number:</b> NM_009855.2	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug , 200 ug/ml	<b>GeneID (NCBI):</b> 12519	<b>CloneNo.:</b> 241371E12
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q00609-1	<b>Recommended Dilutions:</b> FC: 0.1 ug per 10 <sup>6</sup> cells in a 100 µl suspension
<b>Isotype:</b> IgG	<b>Full Name:</b> CD80 antigen	<b>Excitation/Emission maxima wavelengths:</b> 496 nm, 565 nm / 604 nm
<b>Immunogen Catalog Number:</b> EG0840	<b>Calculated MW:</b> 35 kDa	

## Applications

<b>Tested Applications:</b> FC	<b>Positive Controls:</b> FC : mouse peritoneal macrophages,
<b>Species Specificity:</b> mouse	

## Background Information

CD80 (also known as B7-1) is a type I membrane protein that is a member of the immunoglobulin superfamily, with an extracellular immunoglobulin constant-like domain and a variable-like domain required for receptor binding. It is expressed on antigen-presenting cells (APCs), including B cells, dendritic cells, monocytes, and macrophages. CD80 is the receptor for the proteins CD28 and CTLA-4 found on the surface of T-cells. It is involved in the costimulatory signal essential for T-lymphocyte activation. T-cell proliferation and cytokine production is induced by the binding of CD28, binding to CTLA-4 has opposite effects and inhibits T-cell activation. CD80 also acts as a cellular attachment receptor for adenovirus subgroup B. (PMID: 7545666; 12015893; 16920215)

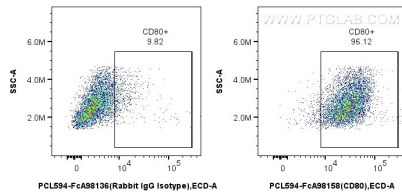
## Storage

**Storage:**  
Store at 2-8°C. Avoid exposure to light. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.09% sodium azide and 0.5% BSA, pH7.3

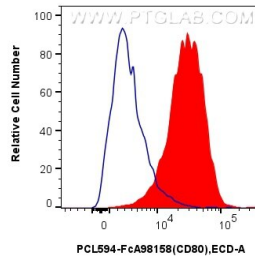
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



1x10<sup>6</sup> mouse peritoneal macrophages were surface stained with 0.1 ug PE-Coralite® Plus 594 Anti-Mouse CD80 Rabbit RecAb (PCL594-FcA98158, Clone: 241371E12) or FcZero-rAb® PE-Coralite® Plus 594 Rabbit IgG Isotype Control Recombinant Antibody (PCL594-FcA98136, Clone: 240953C9). Cells were incubated with MonoZero™ Human/Mouse 3-in-1 Blocking Reagent (PF00029) prior to staining. Cells were not fixed.



1x10<sup>6</sup> mouse peritoneal macrophages were surface stained with 0.1 ug PE-Coralite® Plus 594 Anti-Mouse CD80 Rabbit RecAb (PCL594-FcA98158, Clone: 241371E12) (red) or FcZero-rAb® PE-Coralite® Plus 594 Rabbit IgG Isotype Control Recombinant Antibody (PCL594-FcA98136, Clone: 240953C9) (blue). Cells were incubated with MonoZero™ Human/Mouse 3-in-1 Blocking Reagent (PF00029) prior to staining. Cells were not fixed.