

For Research Use Only

# Anti-Mouse CD80/B7-1 Rabbit Recombinant Antibody

Catalog Number: 98158-1-RR



## Basic Information

<b>Catalog Number:</b> 98158-1-RR	<b>GenBank Accession Number:</b> NM_009855.2	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, 1000 ug/ml	<b>GeneID (NCBI):</b> 12519	<b>CloneNo.:</b> 241371E12
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q00609-1	
<b>Isotype:</b> IgG	<b>Full Name:</b> CD80 antigen	
	<b>Calculated MW:</b> 35 kDa	

## Applications

**Tested Applications:**  
FC

**Species Specificity:**  
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. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.09% sodium azide, pH 7.3.

For technical support and original validation data for this product please contact:

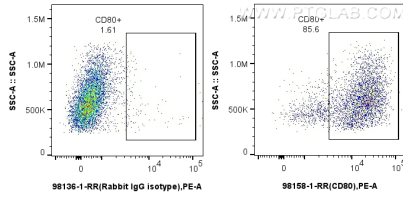
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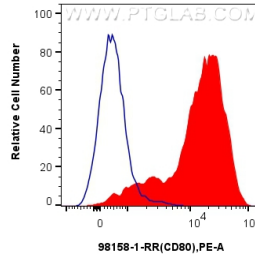
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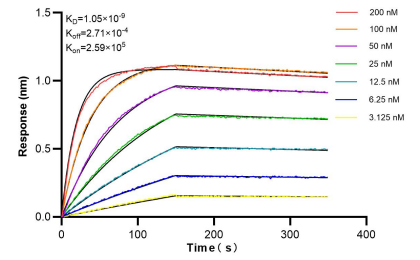
## Selected Validation Data



1x10<sup>6</sup> mouse peritoneal macrophages were surface stained with 0.25 ug Anti-Mouse CD80 Rabbit Recombinant Antibody (98158-1-RR, Clone: 241371E12) or Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9), and PE-conjugated Goat Anti-Rabbit IgG. Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.



1x10<sup>6</sup> mouse peritoneal macrophages were surface stained with 0.25 ug Anti-Mouse CD80/B7-1 Rabbit Recombinant Antibody (98158-1-RR, Clone: 241371E12) (red) or Rabbit IgG Isotype Control Recombinant Antibody (98136-1-RR, Clone: 240953C9) (blue), and PE-conjugated Goat Anti-Rabbit IgG. Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.



Bi-layer interferometry (BLI) kinetic assays of 98158-1-RR against Mouse CD80/B7-1 were performed. The affinity constant is 1.05 nM.