

For Research Use Only

Anti-Mouse CD80/B7-1 Rabbit Recombinant Antibody

Catalog Number: 98158-1-RR



Basic Information

Catalog Number:

98158-1-RR

Size:

100ug , 1000 µg/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_009855.2

GeneID (NCBI):

12519

UNIPROT ID:

Q00609-1

Full Name:

CD80 antigen

Calculated MW:

35 kDa

Purification Method:

Protein A purification

CloneNo.:

241371E12

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.

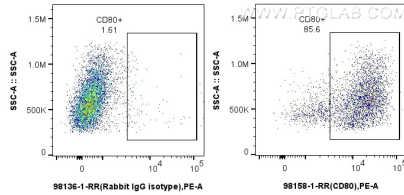
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

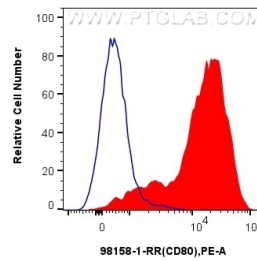
E: proteintech@ptglab.com
W: ptglab.com

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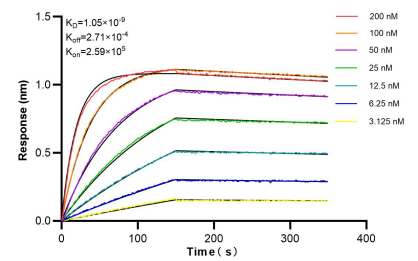
Selected Validation Data



1x10⁶ 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.



1x10⁶ 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.



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