

For Research Use Only

# PE-Cyanine7 Anti-Mouse CD80 Rabbit Recombinant Antibody

Catalog Number: PY7-98158



## Basic Information

Catalog Number:

PY7-98158

Size:

100ug , 200 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

EG0840

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

Recommended Dilutions:

FC: 0.2 ug per 10<sup>6</sup> cells in a 100 µl suspension

Excitation/Emission maxima wavelengths:

450-500 nm / 778 nm

## Applications

Tested Applications:

FC

Species Specificity:

mouse

Positive Controls:

FC : mouse peritoneal macrophages,

## 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

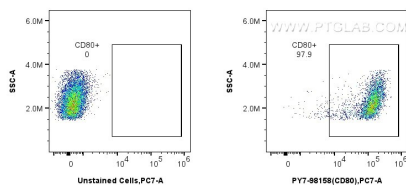
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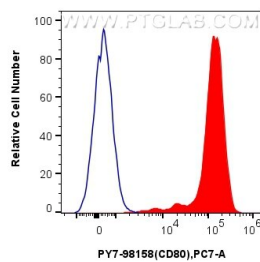
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## Selected Validation Data



1x10<sup>6</sup> mouse peritoneal macrophages were surface stained with 0.2 ug PE-Cyanine7 Anti-Mouse CD80 Rabbit RecAb (PY7-98158, Clone: 241371E12) or unstained. 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 0.2 ug PE-Cyanine7 Anti-Mouse CD80 Rabbit RecAb (PY7-98158, Clone: 241371E12)(red), or unstained (blue). Cells were incubated with FC Receptor Block prior to staining. Cells were not fixed.