

For Research Use Only

# FcZero-rAb® Biotin Anti-Rat CD80 (3H5) Rabbit Recombinant Antibody

Catalog Number: Biotin-FcA65580



## Basic Information

**Catalog Number:**

Biotin-FcA65580

**Concentration:**

100ug, 500 ug/ml

**Source:**

Rabbit

**Isotype:**

IgG

**GenBank Accession Number:**

XM\_017597885

**GeneID (NCBI):**

25408

**UNIPROT ID:**

G3V671

**Full Name:**

Cd80 molecule

**Calculated MW:**

36 kDa

**Purification Method:**

Protein A purification

**CloneNo.:**

3H5

**Recommended Dilutions:**

FC: 0.25 ug per 10<sup>6</sup> cells in a 100 µl suspension

**Excitation/Emission maxima wavelengths:**

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## Applications

**Tested Applications:**

FC, ELISA

**Species Specificity:**

rat

**Positive Controls:**

FC : LPS-stimulated rat splenocytes,

## 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, pH7.3

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

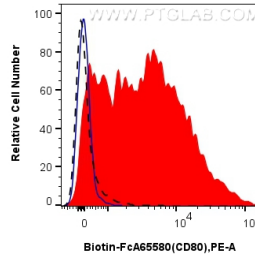
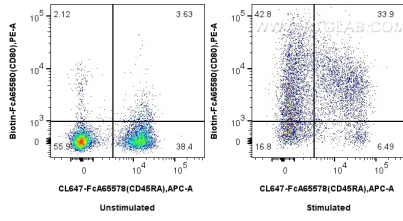
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## Selected Validation Data



$1 \times 10^6$  unstimulated or LPS-stimulated rat splenocytes were surface stained with 0.25  $\mu$ g Biotin Anti-Rat CD80 (3H5) Rabbit IgG RecAb (Biotin-FcA65580, Clone: 3H5) and Streptavidin-PE Conjugate (PE-PF00030). Cells were then stained with FcZero-rAb™ CoraLite® Plus 647 Anti-Rat CD45RA (OX-33) Rabbit IgG Recombinant Antibody (CL647-FcA65578, Clone: OX-33). Cells were not fixed.

$1 \times 10^6$  LPS-stimulated rat splenocytes were surface stained with 0.25  $\mu$ g Biotin Anti-Rat CD80 (3H5) Rabbit IgG RecAb (Biotin-FcA65580, Clone: 3H5) (red) or FcZero-rAb™ Biotin Rabbit IgG Isotype Control Recombinant Antibody (Biotin-FcA98136, Clone: 240953C9) (blue), and Streptavidin-PE Conjugate (PE-PF00030).  $1 \times 10^6$  unstimulated rat splenocytes were surface stained with Biotin Anti-Rat CD80 (3H5) Rabbit IgG RecAb (Biotin-FcA65580, Clone:

