

For Research Use Only

# FITC Plus Anti-Rat CD80 (3H5) Mouse IgG2a Recombinant Antibody

Catalog Number: FITC-65580



## Basic Information

Catalog Number:

FITC-65580

Size:

100ug, 500 µg/ml

Source:

Mouse

Isotype:

IgG2a

GenBank Accession Number:

XM\_017597885

GeneID (NCBI):

25408

Full Name:

Cd80 molecule

Calculated MW:

36 kDa

Purification Method:

Protein A purification

CloneNo.:

3H5

Recommended Dilutions:

FC: 0.5 ug per 10<sup>6</sup> cells in 100 µl suspension

Excitation/Emission maxima wavelengths:

495 nm / 524 nm

## Applications

Tested Applications:

FC

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

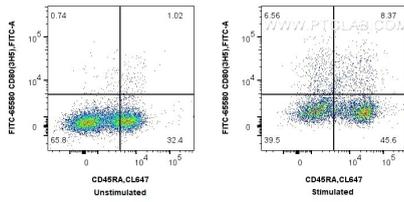
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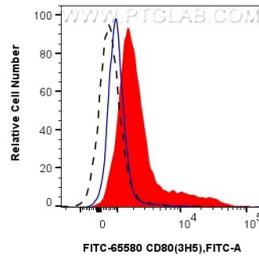
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## Selected Validation Data



1x10<sup>6</sup> unstimulated or LPS-stimulated rat splenocytes were surface stained with CoraLite® Plus 647 Anti-Rat CD45RA and 0.5 ug FITC Plus Anti-Rat CD80 (3H5) Mouse IgG2a RecAb (FITC-65580, Clone: 3H5). Cells were not fixed.



1x10<sup>6</sup> LPS-stimulated rat splenocytes were surface stained with 0.5 ug FITC Plus Anti-Rat CD80 (3H5) Mouse IgG2a RecAb (FITC-65580, Clone: 3H5) (red) or 0.5 ug FITC Plus Mouse IgG2a Isotype Control (C1.18.4) (FITC-65208, Clone: C1.18.4) (blue). 1x10<sup>6</sup> unstimulated rat splenocytes were surface stained with 0.5 ug FITC Plus Anti-Rat CD80 (3H5) Mouse IgG2a RecAb (FITC-65580, Clone: 3H5) (black, dashed). Cells were not fixed.