

For Research Use Only

Anti-Rat CD80/B7-1 (3H5) Mouse IgG2a Recombinant Antibody

Catalog Number: 65580-1-MR



Basic Information

Catalog Number: 65580-1-MR	GenBank Accession Number: XM_017597885	Purification Method: Protein A purification
Size: 100ug, 1000 µg/ml	GeneID (NCBI): 25408	CloneNo.: 3H5
Source: Mouse	Full Name: Cd80 molecule	
Isotype: IgG2a	Calculated MW: 36 kDa	

Applications

Tested Applications:
FC

Species Specificity:
rat

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.

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

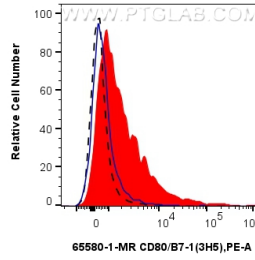
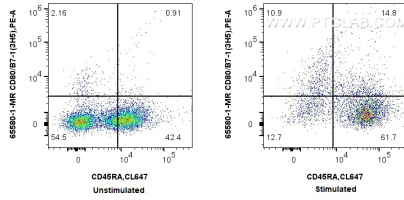
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Selected Validation Data



1x10⁶ unstimulated or LPS-stimulated rat splenocytes were surface stained with 0.25 ug Anti-Rat CD80/B7-1 Mouse IgG2a Recombinant Antibody (65580-1-MR, Clone: 3H5) and PE-Conjugated Goat Anti-Rabbit IgG(H+L). Cells were co-stained with CoraLite® Plus 647 Anti-Rat CD45RA (OX-33). Cells were not fixed.

1x10⁶ LPS-stimulated rat splenocytes were surface stained with 0.25 ug Anti-Rat CD80/B7-1 Mouse IgG2a Recombinant Antibody (65580-1-MR, Clone: 3H5) (red) or Mouse IgG2a Isotype Control (65208-1-Ig, Clone: C1.18.4) (blue) and PE-Conjugated Goat Anti-Rabbit IgG(H+L). 1x10⁶ unstimulated rat splenocytes were surface stained with 0.25 ug Anti-Rat CD80/B7-1 Mouse IgG2a Recombinant Antibody (65580-1-MR, Clone: 3H5)(black, dashed) and PE-

