

For Research Use Only

Anti-Human CD80 (B7-1) (2D10.4)

Catalog Number: 65083-1-Ig **1 Publications**



Basic Information

Catalog Number: 65083-1-Ig	GenBank Accession Number: BC042665	Purification Method: Affinity purification
Size: 100ug , 500 µg/ml	GeneID (NCBI): 941	CloneNo.: 2D10.4
Source: Mouse	Full Name: CD80 molecule	
Isotype: IgG1, kappa	Calculated MW: 33 kDa	

Applications

Tested Applications:
FC

Cited Applications:
FC

Species Specificity:
human

Cited Species:
human

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)

Notable Publications

Author	Pubmed ID	Journal	Application
Hideki Hayashi	39106307	Proc Natl Acad Sci U S A	FC

Storage

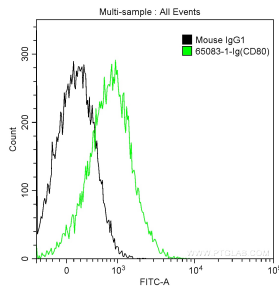
Storage:
Store at 2-8°C. Stable for one year after shipment.

Storage Buffer:
PBS with 0.1% 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)
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Selected Validation Data



1X10⁶ Daudi cells were surface stained with 0.25 ug Anti-Human CD80 (B7-1) (65083-1-Ig, Clone: 2D10.4) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (green), or stained with 0.25 ug isotype control and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (black). Cells were not fixed.