

For Research Use Only

# Anti-Human CD80 (2D10.4)

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



## Basic Information

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

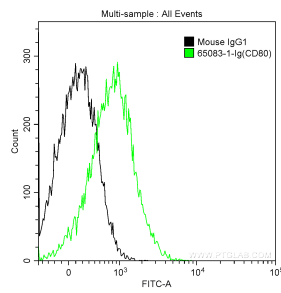
**Storage:**  
Store at 2-8°C. Stable for one year after shipment.

**Storage Buffer:**  
PBS with 0.1% sodium azide, pH 7.3.

For technical support and original validation data for this product please contact:  
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## Selected Validation Data



1X10<sup>6</sup> 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.