

For Research Use Only

# PE Anti-Human CD80 (2D10.4)

Catalog Number: PE-65083

3 Publications



## Basic Information

Catalog Number:

PE-65083

Size:

100 tests, 5 µl/test

Source:

Mouse

Isotype:

IgG1, kappa

GenBank Accession Number:

BC042665

GeneID (NCBI):

941

UNIPROT ID:

P33681

Full Name:

CD80 molecule

Calculated MW:

33 kDa

Purification Method:

Affinity purification

CloneNo.:

2D10.4

Recommended Dilutions:

FC: 5 µl per 10<sup>6</sup> cells in 100 µl suspension

Excitation/Emission maxima wavelengths:

496 nm, 565 nm / 578 nm

## Applications

Tested Applications:

FC

Cited Applications:

FC

Species Specificity:

human

Cited Species:

human

Positive Controls:

FC : Daudi cells, IFN-γ and LPS-stimulated THP-1-derived macrophages

## 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
Yijun Lu	40184814	Int Immunopharmacol	FC
Chaochao Dai	38655264	Front Immunol	FC
Lina Wang	38266813	Life Sci	FC

## 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 and 0.1% gelatin, pH7.2

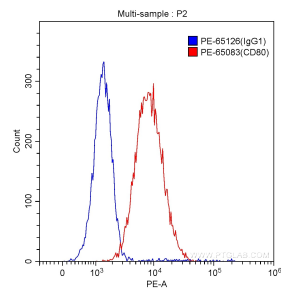
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



1X10<sup>6</sup> Daudi cells were surface stained with 5.00  
ul PE Anti-Human CD80 (B7-1) (PE-65083, Clone:  
2D10.4) (red) or isotype control antibody (blue).  
Cells were not fixed.