

For Research Use Only

PE Anti-Human CD80 (2D10.4)

Catalog Number: PE-65083 **3 Publications**



Basic Information

Catalog Number: PE-65083	GenBank Accession Number: BC042665	Purification Method: Affinity purification
Concentration: 100tests, 5 ul/test	GeneID (NCBI): 941	CloneNo.: 2D10.4
Source: Mouse	UNIPROT ID: P33681	Recommended Dilutions: FC: 5 ul per 10 ⁶ cells in 100 μl suspension
Isotype: IgG1, kappa	Full Name: CD80 molecule	Excitation/Emission maxima wavelengths: 496 nm, 565 nm / 578 nm
	Calculated MW: 33 kDa	

Applications

Tested Applications: FC	Positive Controls: FC : Daudi cells, IFN-γ and LPS-stimulated THP-1-derived macrophages
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
Yijun Lu	40184814	Int Immunopharmacol	FC
Chaochao Dai	38655264	Front Immunol	FC
Lina Wang	38266813	Life Sci	FC

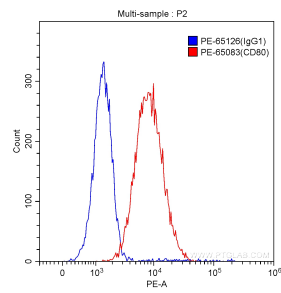
Storage

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: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

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

Selected Validation Data



1X10⁶ 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.