For Research Use Only

CD80/B7-1 Polyclonal antibody

Catalog Number:14292-1-AP 30 Publications

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Basic Information

Catalog Number:
14292-1-AP

Size:
700 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG5615

GenBank Accession Number:
BC042665

GeneID (NCBI):
941

UNIPROT ID:
P33681

Full Name:
CD80 molecule

Calculated MW:
33 kDa

Observed MW:
60 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000

Applications

Tested Applications:
WB, ELISA

Cited Applications:
WB

Species Specificity:
human, mouse

Cited Species:
human, mouse

Positive Controls:

WB : Raji cells, RAW 264.7 cells, human peripheral blood leukocyte, Ramos cells

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

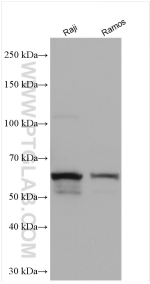
Author	Pubmed ID	Journal	Application
Haoran Wang	35087966	Bioact Mater	FC
Wen Song	36260348	J Med Chem	FC
Jiayu Zhang	35530972	Int J Nanomedicine	

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 14292-1-AP (CD80/B7-1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.