

For Research Use Only

PDCD4 Polyclonal antibody

Catalog Number: 12587-1-AP

Featured Product

35 Publications



Basic Information

Catalog Number:

12587-1-AP

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3288

GenBank Accession Number:

BC026104

GeneID (NCBI):

27250

UNIPROT ID:

Q53EL6

Full Name:

programmed cell death 4 (neoplastic transformation inhibitor)

Calculated MW:

469 aa, 52 kDa

Observed MW:

54-64 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:1000-1:4000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:20-1:200

FC (Intra): 0.40 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, FC (Intra), IP, ELISA

Cited Applications:

WB, IHC, IF

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: BxPC-3 cells, MCF-7 cells, HEK293 cells, HEK-293 cells, HeLa cells

IP: HeLa cells,

IHC: human breast cancer tissue,

FC (Intra): MCF-7 cells,

Background Information

Programmed cell death 4 (Pcd4) is a novel tumor suppressor that inhibits translation, progression and invasion. It was first identified as being differentially upregulated during apoptosis. Pcd4 interferes with the activity of the eukaryotic initiation factor (eIF) 4A by displacing the scaffold protein eIF4G from its binding to the RNA helicase eIF4A. The calculated molecular weight of unmodified PDCD4 protein is 52 kDa, but the modified protein is about 54-64 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Dong Fan	33101486	Oncol Lett	WB
Dan He	29115622	Mol Med Rep	WB
Anyu Alayev	25336146	J Cell Biochem	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

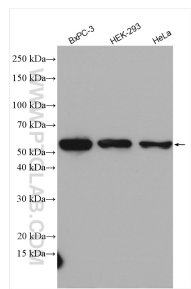
T: 4006900926

E: Proteintech-CN@ptglab.com

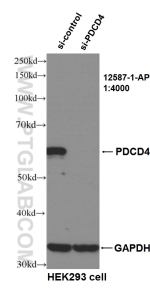
W: ptgcn.com

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

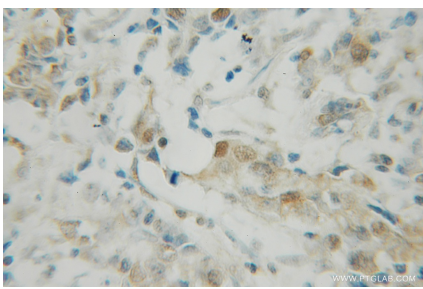
Selected Validation Data



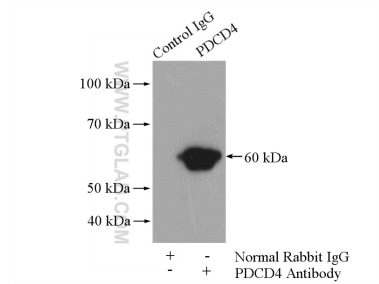
Various lysates were subjected to SDS PAGE followed by western blot with 12587-1-AP (PDCD4 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



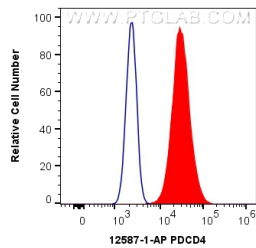
WB result of PDCD4 antibody (12587-1-AP, 1:4000) with si-control and si-PDCD4 transfected HEK293 cells.



Immunohistochemical analysis of paraffin-embedded human breast cancer using 12587-1-AP (PDCD4 antibody) at dilution of 1:50 (under 10x lens).



IP result of anti-PDCD4 (IP:12587-1-AP, 4ug; Detection:12587-1-AP 1:3000) with HeLa cells lysate 4000ug.



1X10⁶ MCF-7 cells were intracellularly stained with 0.4 ug Anti-Human PDCD4 (12587-1-AP) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Isotype Control. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.