

For Research Use Only

# PDCD4 Polyclonal antibody

Catalog Number: 12587-1-AP

Featured Product

23 Publications



## Basic Information

### Catalog Number:

12587-1-AP

### Size:

150ul, Concentration: 900 µg/ml by Nanodrop and 600 µg/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG3288

### GenBank Accession Number:

BC026104

### GeneID (NCBI):

27250

### 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 IP and 1:1000-1:6000 for WB

IHC 1:20-1:200

## Applications

### Tested Applications:

FC, IHC, IP, WB, ELISA

### Cited Applications:

IHC, WB

### 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 : HeLa cells, HEK293 cells

IP : HeLa cells,

IHC : human breast cancer tissue,

## 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          |
| Anya Alayev  | 25336146  | J Cell Biochem       | WB          |
| Jianbing Zhu | 27832626  | Cell Physiol 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 pH 7.3.

Aliquoting is unnecessary for -20°C storage

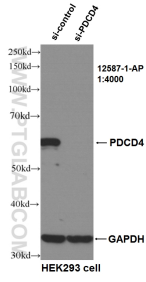
For technical support and original validation data for this product please contact:

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

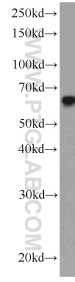
E: proteintech@ptglab.com  
W: ptglab.com

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

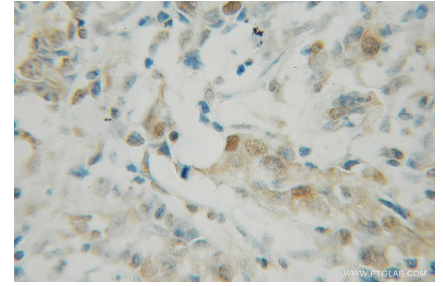
## Selected Validation Data



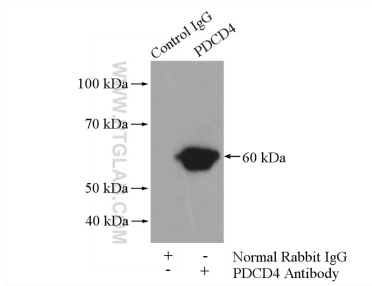
WB result of PDCD4 antibody (12587-1-AP, 1:4000) with si-control and si-PDCD4 transfected HEK293 cells.



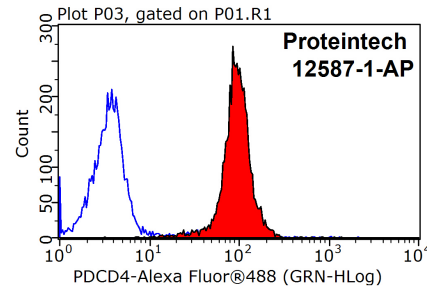
HeLa cells were subjected to SDS PAGE followed by western blot with 12587-1-AP (PDCD4 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



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.



1X10<sup>6</sup> MCF-7 cells were stained with 0.2ug PDCD4 antibody (12587-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1500.