

## **Pdcd-4 Polyclonal Antibody**

Catalog No: YT3625

Reactivity: Human; Mouse; Rat

**Applications:** WB;IHC;IF;ELISA

Target: PDCD4

**Fields:** >>Proteoglycans in cancer;>>MicroRNAs in cancer

Gene Name: PDCD4

**Protein Name:** Programmed cell death protein 4

Q53EL6

Q61823

Human Gene Id: 27250

**Human Swiss Prot** 

Tullian Swiss Frot

No:

Mouse Gene Id: 18569

**Mouse Swiss Prot** 

No:

Rat Gene Id: 64031

Rat Swiss Prot No: Q9JID1

**Immunogen:** The antiserum was produced against synthesized peptide derived from human

PDCD4. AA range:420-469

**Specificity:** Pdcd-4 Polyclonal Antibody detects endogenous levels of Pdcd-4 protein.

**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

**Dilution:** WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not

yet tested in other applications.



**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 51kD

**Background:** This gene is a tumor suppressor and encodes a protein that binds to the

eukaryotic translation initiation factor 4A1 and inhibits its function by preventing RNA binding. Alternative splicing results in multiple transcript variants. [provided

by RefSeq, Dec 2010],

**Function:** caution: The sequence shown here is derived from an Ensembl automatic

analysis pipeline and should be considered as preliminary data., disease: Loss of

expression correlated with tumor progression of lung and colon

carcinoma.,domain:Binds EIF4A1 via the MA3 domains.,function:Tumor suppressor. Inhibits tumor promoter-induced neoplastic transformation. Down-regulates the expression of MAP4K1, thus inhibiting events important in driving

invasion, namely, MAPK85 activation and consequent JUN-dependent

transcription. May play a role in apoptosis. Inhibits the helicase activity of EIF4A and cap-dependent translation. Binds RNA.,induction:IL2 stimulation inhibits expression, while IL12 increases expression.,sequence caution:Contaminating

sequence. Potential poly-A sequence., similarity: Belongs to the PDCD4

family., similarity: Contains 2 MI domains., subcellular location: Shuttles between the

nucleus a

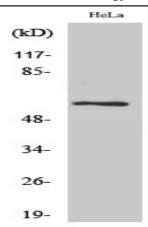
Subcellular Location : Nucleus . Cytoplasm . Shuttles between the nucleus and cytoplasm (By similarity). Predominantly nuclear under normal growth conditions, and when

phosphorylated at Ser-457 (PubMed:16357133)...

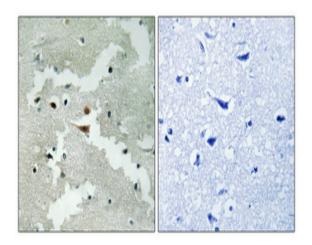
**Expression:** Up-regulated in proliferative cells. Highly expressed in epithelial cells of the

mammary gland. Reduced expression in lung cancer and colon carcinoma.

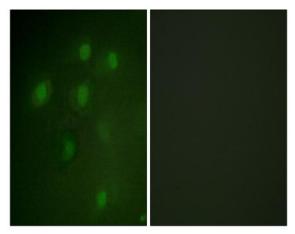
## **Products Images**



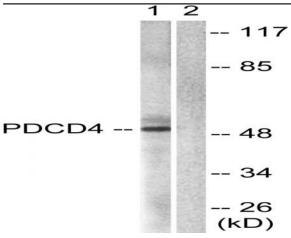
Western Blot analysis of various cells using Pdcd-4 Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.



Immunofluorescence analysis of HeLa cells, using PDCD4 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from 293 cells, using PDCD4 Antibody. The lane on the right is blocked with the synthesized peptide.