



Pdcd-4 Polyclonal Antibody

Catalog No	YP-Ab-00488
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB;IHC;IF;ELISA
Gene Name	PDCD4
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
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Dug;H731;Nuclear antigen H731-like;PDCD 4;Tis;PDCD4;Programmed cell death protein 4;Neoplastic transformation inhibitor protein;Protein 197/15a
Observed Band	51kD
Calculated Molecular Weight	51kD
Cell Pathway	Nucleus . Cytoplasm . Shuttles between the nucleus and cytoplasm (By similarity). Predominantly nuclear under normal growth conditions, and when phosphorylated at Ser-457 (PubMed:16357133). .
Tissue Specificity	Up-regulated in proliferative cells. Highly expressed in epithelial cells of the mammary gland. Reduced expression in lung cancer and colon carcinoma.
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

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],

matters needing attention

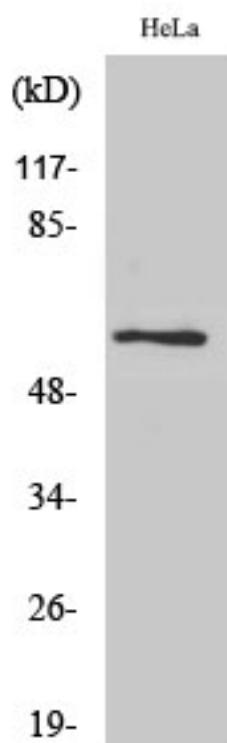
Avoid repeated freezing and thawing!

Usage suggestions

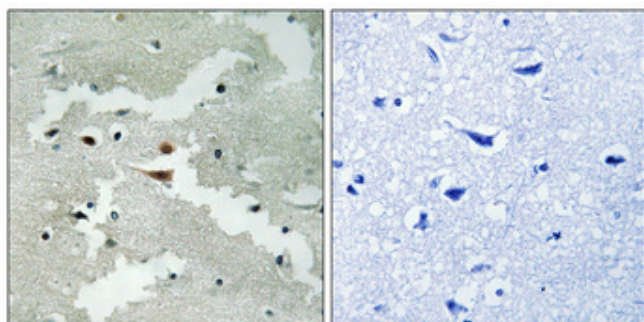
This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



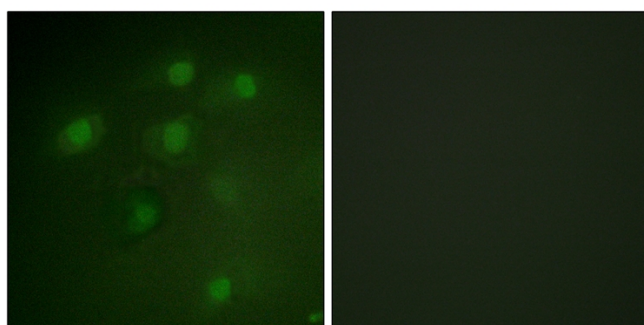
Products Images



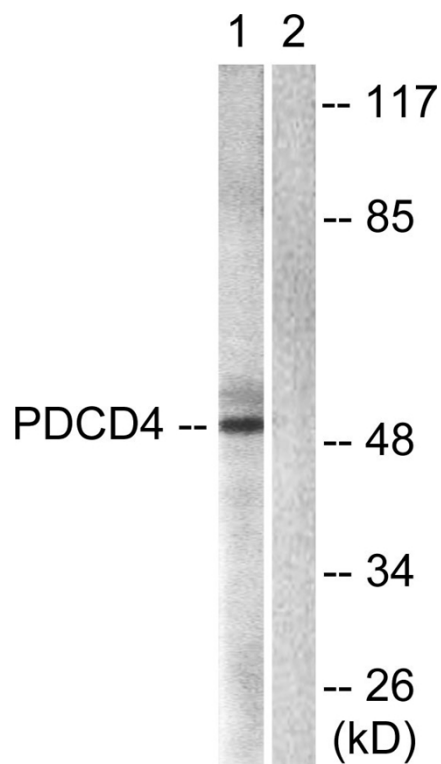
Western Blot analysis of various cells using Pdc4-4 Polyclonal Antibody



Immunohistochemical analysis of paraffin-embedded Human brain. Antibody was diluted at 1:100 (4° overnight). High-pressure and temperature Tris-EDTA, pH 8.0 was used for antigen retrieval. Negative control (right) obtained 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.