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anti-PDCD4 antibody (pSer457)

3 Images



Publication



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Quantity:	100 μg		
Target:	PDCD4		
Binding Specificity:	pSer457		
Reactivity:	Human, Mouse, Rat, Xenopus laevis		
Host:	Mouse		
Clonality:	Monoclonal		
Conjugate:	This PDCD4 antibody is un-conjugated		
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC)		
Product Details			
Immunogen:	This monoclonal antibody was produced by repeated immunizations with a synthetic peptide		
	corresponding to residues surrounding Ser457 of the human Pdcd4 protein.		
	Immunogen Type: Peptide		
Clone:	9G6		
Isotype:	IgG1 kappa		
Specificity:	Pdcd4 phospho S457 Antibody was purified from concentrated tissue culture supernate by		
	Protein A chromatography. This antibody is specific for human Pdcd4 protein phosphorylated		
	at Ser457. A BLAST analysis was used to suggest cross-reactivity with Pdcd4 from human,		
	mouse, rat and Xenopus based on 100% homology with the immunizing sequence. Cross-		
	reactivity with Pdcd4 from other sources has not been determined.		
Cross-Reactivity:	Mouse (Murine), Rat (Rattus), Xenopus laevis		

Product Details

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Programmed cell death 4 (Pdcd4) is a novel tumor supressor. Pdcd4 directly inhibits the helicase activity of eukaryotic translation initiation factor 4A (eIF4A), a component of the translation initiation complex. Pdcd4 also suppresses the transactivation of activator protein-1 (AP-1)-responsive promoters by c-Jun. Pdcd4 contains two Akt phosphoryl-ation sites, one at Ser67 and the other at Ser457. The phosphorylation of Pdcd4 by Akt causes nuclear translocation of Pdcd4 and a significant decrease in the ability of Pdcd4 to interfere with the transactivation of AP-1-responsive promoters by c-Jun.

Sterility:

Sterile filtered

Target Details

Target:	PDCD4
Alternative Name:	Pdcd4 (PDCD4 Products)
Background:	Programmed cell death 4 (Pdcd4) is a novel tumor supressor. Pdcd4 directly inhibits the helicase activity of eukaryotic translation initiation factor 4A (eIF4A), a component of the translation initiation complex. Pdcd4 also suppresses the transactivation of activator protein-1 (AP-1)-responsive promoters by c-Jun. Pdcd4 contains two Akt phosphoryl-ation sites, one at Ser67 and the other at Ser457. The phosphorylation of Pdcd4 by Akt causes nuclear translocation of Pdcd4 and a significant decrease in the ability of Pdcd4 to interfere with the transactivation of AP-1-responsive promoters by c-Jun. Synonyms: Death up-regulated gene protein antibody, Dug antibody, H731 antibody, Ma3 antibody, Neoplastic transformation inhibitor antibody, Neoplastic transformation inhibitor protein antibody, Nuclear antigen H731 antibody
Gene ID:	27250, 21735596
UniProt:	Q53EL6

Application Details

Application Notes:

Pdcd4 phospho S457 Antibody is suitable for ELISA, immunohistochemistry and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 62 kDa in size corresponding to phosphorylated Pdcd4 protein by western blotting in the appropriate cell lysate or extract. This phospho-specific monoclonal antibody reacts with human Pdcd4 pS457 and shows minimal reactivity by ELISA against the non-phosphorylated form of the immunizing peptide.

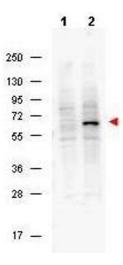
Comment:

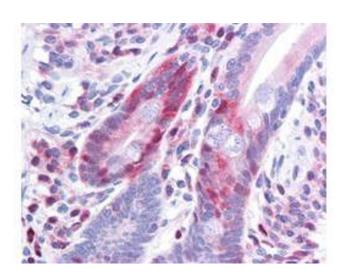
Gene Name: PDCD4

Application Details

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Restrictions:	For Research Use only		
Handling			
Format:	Liquid		
Concentration:	1.0 mg/mL		
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2		
Preservative:	Sodium azide		
Precaution of Use:	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.		
Storage:	4 °C/-20 °C		
Storage Comment:	Store vial at 4 °C prior to restoration. For extended storage aliquot contents and freeze at -20 °C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4 °C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening.		
Expiry Date:	12 months		
Publications			
Product cited in:	Huang, Wu, Loeb, Hsu, Heidersbach, Brincat, Horiuchi, Lebbink, Mo, Goga, McManus: "Up-regulation of miR-21 by HER2/neu signaling promotes cell invasion." in: The Journal of		

biological chemistry, Vol. 284, Issue 27, pp. 18515-24, (2009) (PubMed).





Western Blotting

Image 1. Western blot using Protein A purified Mouse Monoclonal anti-Pdcd4 pS457 antibody shows detection of phosphorylated Pdcd4 (indicated by arrowhead at ~62 kDa) in NIH-3T3 cells after 5 min treatment with 30 ng/mL PDGF (lane 2). No reactivity is seen for unstimulated (non-phosphorylated) NIH 3T3 cells (lane 1). The membrane was probed with the primary antibody at a 1:2,000 dilution, overnight at 4° C. For detection HRP conjugated Rb-a-Mouse IgG was used at a 1:20,000 dilution in blocking buffer for 1 h at 4° C followed by visualization using a imaging system (UVP).

Immunohistochemistry

Image 2. Antibody 200-301-964 has been tested in immunohistochemistry, analyzed an by anatomic pathologist and validated for use in IHC applications against formalin-fixed, paraffin-embedded human tissues. The antibody was serially diluted and tested at a range of concentrations on at least 22 different human formalinfixed, paraffin archival tissues, and positive and negative tissues were scored and compared to the published literature on the expression and function of the gene. A representative image from positively stained small intestine shows the localization of the anti Pdcd4 antibody as the precipitated red signal, with a hematoxylin purple nuclear counterstain. Image provided courtesy of LifeSpan Biosciences, Seattle, WA



Western Blotting

Image 3. Western blot using Immunochemicals Protein A purified Mouse Monoclonal anti-Pdcd4 pS457 antibody against recombinant PDCD4 protein. Membrane was blocked in 1% BSA-TBS-T for 30 min RT and probed with 1° Ab Ms-A-Pdcd4pS457 1:1000 (o/n 4°C in 1% BSA-TBS-T) followed by 2° Ab Peroxidase Conjugated Rabbit anti Ms CUST10M Lot# 20121 at 1:40,000 in ABIN925618 30 min RT. Bands at ~62 kD and ~32 kD were detected.