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anti-PDCD4 antibody (pSer457)

Images

Publications



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Quantity:	100 μg		
Target:	PDCD4		
Binding Specificity:	pSer457		
Reactivity:	Human		
Host:	Rabbit		
Clonality:	Polyclonal		
Conjugate:	This PDCD4 antibody is un-conjugated		
Application:	Western Blotting (WB), ELISA		
Product Details			
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated		
	immunizations with a synthetic peptide corresponding to amino acids surrounding Ser457 in the human Pdcd4 protein.		
Isotype:	IgG		
Cross-Reactivity:	Mouse (Murine), Rat (Rattus), Xenopus laevis		
Characteristics:	Concentration Definition: by UV absorbance at 280 nm		
Target Details			
Target:	PDCD4		
Alternative Name:	Pdcd4 (PDCD4 Products)		

Target Details

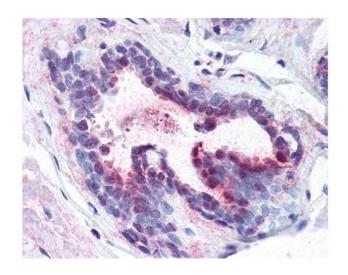
Background:	This antibody is designed, produced, and is suitable for Cancer, Immunology and Nuclear Signaling research. Programmed cell death 4 (Pdcd4) is a novel tumor supressor. Pdcd4 directly inhibits the helicase activity of eukaryotic translation initiation factor 4A (eIF4A), a component of the translation initiation complex. Pdcd4 also suppresses the transactivation of activator protein-1 (AP-1)-responsive promoters by c-Jun. Pdcd4 contains two Akt phosphorylation 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:	This affinity purified antibody has been tested for use in ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. By western blot, a band approximately 52 kDa in size corresponding to Pdcd4 protein is expected in the appropriate cell lysate or extract.	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	0.95 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:	-20 °C	
Publications		
Product cited in:	Eto, Goto, Nakashima, Ura, Abe: "Loss of programmed cell death 4 induces apoptosis by	

promoting the translation of procaspase-3 mRNA." in: **Cell death and differentiation**, (2011) (PubMed).

Reis, Tomenson, Cervigne, Machado, Jurisica, Pintilie, Sukhai, Perez-Ordonez, Grénman, Gilbert, Gullane, Irish, Kamel-Reid: "Programmed cell death 4 loss increases tumor cell invasion and is regulated by miR-21 in oral squamous cell carcinoma." in: **Molecular cancer**, Vol. 9, pp. 238, (2011) (PubMed).

Huang, Wu, Loeb, Hsu, Heidersbach, Brincat, Horiuchi, Lebbink, Mo, Goga, McManus: "Upregulation 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).

Images

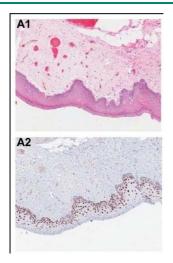


Immunohistochemistry

Image 1. affinity purified anti-Pdcd4 pS457 antibody was used at $1.25~\mu g/ml$ to detect signal in a variety of tissues including multi-human, multi-brain and multi-cancer slides. This image shows moderate positive staining of human breast epithelial cells at 40X. Tissue was formalin-fixed and paraffin embedded. The image shows localization of the antibody as the precipitated red signal, with a hematoxylin purple nuclear counterstain.

Western Blotting

Image 2. Western blot using affinity purified anti-Pdcd4 pS457 antibody shows detection of Pdcd4 phosphorylated at Ser 457 (arrowheads). Lanes 1 & 2 each contain 100 ng recombinant Pdcd4. Lanes 3 & 4 each contain 30 μg of whole cell extract from 293 HEK cells treated with 20 nM TPA and MG132 proteosome inhibitor for 8 hours. The signal can be competed off with peptide phosphorylated at Ser 457 (Lanes 2 & 4). Personal Communication, M Young & A Jansen, NCI, Bethesda, MD.



Immunohistochemistry

Image 3. Immunohistochemical analysis of PDCD4 shows the corresponding H&E-stained and PDCD4-stained tissue sections from patients with OSCC. Panels A1, A2, D1, D2 show two adjacent normal epithelium samples with strongly positive, nuclear PDCD4 staining. Panels B1, B2, E1, E2 show two dysplasia samples with positive to weak nuclear PDCD4 staining. Panels C1, C2, F1, F2 show loss of PDCD4 expression in two moderately differentiated OSCCs. Normal, dysplasia and OSCC samples are paired and correspond to two different patients (A-C and D-F, respectively). - figure provided by CiteAb. Source: PMID20831814

Please check the product details page for more images. Overall 14 images are available for ABIN129708.