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Datasheet for ABIN129709 anti-PDCD4 antibody (C-Term)

8 Images

Publications

11



Overview

Quantity:	100 µg
Target:	PDCD4
Binding Specificity:	C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PDCD4 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunoprecipitation (IP)
Product Details	
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated
	immunizations with a synthetic peptide corresponding amino acids near the of human Pdcd4 protein.
Isotype:	immunizations with a synthetic peptide corresponding amino acids near the of human Pdcd4
Isotype: Cross-Reactivity:	immunizations with a synthetic peptide corresponding amino acids near the of human Pdcd4 protein.
	immunizations with a synthetic peptide corresponding amino acids near the of human Pdcd4 protein.
Cross-Reactivity:	immunizations with a synthetic peptide corresponding amino acids near the of human Pdcd4 protein. IgG Mouse (Murine), Rat (Rattus), Xenopus laevis
Cross-Reactivity: Characteristics:	immunizations with a synthetic peptide corresponding amino acids near the of human Pdcd4 protein. IgG Mouse (Murine), Rat (Rattus), Xenopus laevis

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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, western blotting,
	immunoprecipitation and immunohistochemistry. Specific conditions for reactivity should be
	optimized by the end user. Expect a band approximately 52 kDa in size corresponding to Pdcd4
	protein by western blotting in the appropriate cell lysate or extract.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1.06 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:	Hill, Nesser, Johnson-Camacho, Jeffress, Johnson, Boniface, Spencer, Lu, Heiser, Lawrence,

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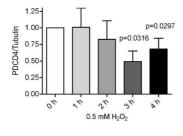
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There are more publications referencing this product on: Product page

Images

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0 1 2 3 4 Time (h)



Western Blotting

Image 1. H2O2 causes cytoplasmic accumulation of HuR and a loss in PDCD4 expression that is mediated by miR-21A. HuR localization by immunofluorescence of HeLa cells treated with PBS (0 mM H2O2) or 0.5 mM H2O2 for 1 h. Nuclei are visualized by Hoechst staining. Nuclear/Cytoplasmic ratio of HuR is shown on the right. Higher ratio denotes more nuclear staining. B. Left panel: HeLa cells were treated with 0.5 mM H2O2 for the indicated times and cell lysates analysed by western blot analysis

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indicating a decrease in PDCD4 protein at 3 h as compared to Tubulin control. Right panel: PDCD4 protein levels were quantified relative to Tubulin. C. Cells were treated with 0.5 mM H2O2 for the indicated time points, total RNA was isolated and analysed by gRT-PCR indicating a loss of PDCD4 mRNA as compared to GAPDH control. D. Left panel: HeLa cells were treated with antimiR-21 or a nontargeting antimiR-CTRL (control) for 24 h followed by treatment with 0.5 mM H2O2 for 4 h. Cells were harvested and analysed by western blot analysis. Tubulin was used as a loading control. Right panel: Quantification of PDCD4 levels relative to Tubulin. E. HeLa cells were treated with 0.5 mM H2O2 or PBS and HuR was immunoprecipitated. Bound RNA was isolated and qRT-PCR was performed to determine levels of PDCD4 mRNA. The levels of HuR-bound PDCD4 in PBS-treated cells were set as 1. - figure provided by CiteAb. Source: PMID26595526

Western Blotting

Image 2. Western blot using affinity purified anti-Pdcd4 antibody shows detection of a band ~52 kDa in size corresponding to Pdcd4 (arrowhead). Lane 1 contains recombinant Pdcd4. Lane 2 contains 293 HEK cells treated with TPA and MG132. The anti-Pdcd4 antibody was used at a 1: 5,000 dilution. Personal Communication. M Young & A Jansen, NCI, Bethesda, MD.

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Western Blotting

Image 3. Western Blot of Rabbit anti-PDCD antibody. Marker: Opal Pre-stained ladder . Lane 1: HEK293 lysate . Lane 2: HeLa Lysate . Lane 3: MCF-7 Lysate . Lane 4: Jurkat Lysate . Lane 5: A431 Lysate . Lane 6: Raji Lsyate . Lane 7: Ramos Lysate . Lane 8: NIH/3T3 Lysate . Load: 35 µg per lane. Primary antibody: PDCD antibody at 1:1,000 for 3hrs at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:30,000 for 60 min at RT. Blocking Buffer: 1% Casein-TTBS for 30 min at RT. Predicted/Observed size: 52 kDa for PDCD.

Please check the product details page for more images. Overall 8 images are available for ABIN129709.