

Datasheet for ABIN1043755

anti-PDCD4 antibody (Internal Region, pSer457) (Biotin)[Go to Product page](#)[2 Images](#)[2 Publications](#)

Overview

Quantity:	50 µg
Target:	PDCD4
Binding Specificity:	Internal Region, pSer457
Reactivity:	Human, Mouse, Rat, Xenopus laevis
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This PDCD4 antibody is conjugated to Biotin
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 Pdc4 protein. Immunogen Type: Peptide
Clone:	9G6
Isotype:	IgG1 kappa
Specificity:	Anti-Pdc4 pS457 (MOUSE) Monoclonal Antibody Biotin Conjugated was purified from concentrated tissue culture supernate by Protein A chromatography. This antibody is specific for human Pdc4 protein phosphorylated at Ser457. A BLAST analysis was used to suggest cross-reactivity with Pdc4 from human, mouse, rat and Xenopus based on 100% homology with the immunizing sequence. Cross-reactivity with Pdc4 from other sources has not been determined.

Product Details

Characteristics:	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.
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Target Details

Target:	PDCD4
Alternative Name:	Pdcd4 (PDCD4 Products)
Background:	<p>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.</p> <p>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</p>
Gene ID:	27250, 21735596
UniProt:	Q53EL6

Application Details

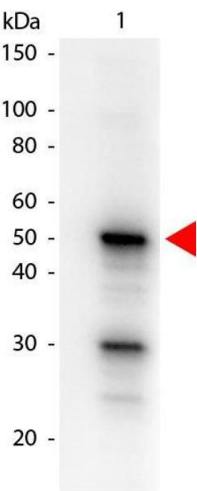
Application Notes:	Anti-Pdcd4 pS457 (MOUSE) Monoclonal Antibody Biotin Conjugated is suitable for ELISA, immunohistochemistry and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 62 kDa in size corresponding to phosphorylated Pdcd4 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
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Reconstitution Buffer: Restore with deionized water (or equivalent), Reconstitution Volume: 100 μ L
Concentration:	1.0 mg/mL
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
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:	<p>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).</p> <p>Jansen, Camalier, Colburn: "Epidermal expression of the translation inhibitor programmed cell death 4 suppresses tumorigenesis." in: Cancer research, Vol. 65, Issue 14, pp. 6034-41, (2005) (PubMed).</p>
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Western Blotting

Image 1. Western Blot of Mouse anti-Pdcd4 phospho S457 Biotin Conjugated antibody. Lane 1: Pdcd4 recombinant protein. Lane 2: none. Load: 100 ng per lane. Primary antibody: Pdcd4 phospho S457 Biotin Conjugated antibody at 1:1,000 for overnight at 4°C. Secondary antibody: HRP Streptavidin secondary antibody at 1:40,000 for 30 min at RT. Block: ABIN925618 for 30 min at RT. Predicted/Observed size: 50 kDa, 50 kDa for Pdcd4 phospho S457. Other band(s): Pdcd4 phospho S457 splice variants and isoforms

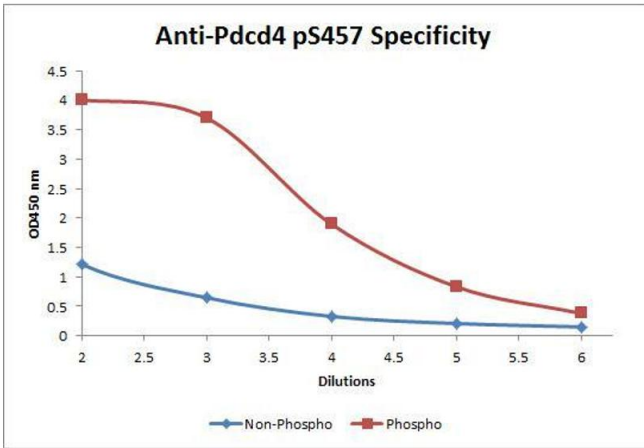


Image 2.