

Product datasheet for **TA396762**

PDCD4 Mouse Monoclonal Antibody [Clone ID: 9G6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	9G6
Applications:	ELISA, IHC, WB
Recommended Dilution:	WB: 1:1,000-1:3,000 IHC: 1.25-2.5 µg/mL ELISA: 1:400,000
Reactivity:	Human, Mouse, Rat
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
Immunogen:	Anti-Pdcd4 phospho S457 Antibody was produced by repeated immunizations with a synthetic peptide corresponding to residues surrounding Ser457 of the human Pdcd4 protein.
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.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1.0 mg/mL - lot specific
Conjugation:	Unconjugated
Storage:	Store Pdcd4 phospho S457 Antibody at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. 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.
Stability:	Expiration date is one (1) year from date of receipt.
Gene Name:	programmed cell death 4 (neoplastic transformation inhibitor)



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Database Link:	Entrez Gene 27250 Human Q53EL6
Background:	Programmed cell death 4 (Pdc4) is a novel tumor suppressor. Pdc4 directly inhibits the helicase activity of eukaryotic translation initiation factor 4A (eIF4A), a component of the translation initiation complex. Pdc4 also suppresses the transactivation of activator protein-1 (AP-1)-responsive promoters by c-Jun. Pdc4 contains two Akt phosphorylation sites, one at Ser67 and the other at Ser457. The phosphorylation of Pdc4 by Akt causes nuclear translocation of Pdc4 and a significant decrease in the ability of Pdc4 to interfere with the transactivation of AP-1-responsive promoters by c-Jun. Ideal for researchers involved in Cell Signaling, Cancer and Signal Transduction research.
Synonyms:	mouse anti-Pdc4 pS457 Antibody, 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
Note:	Anti-PDCD4 pS457 monoclonal antibody has been tested by ELISA and western blotting and is suitable for immunohistochemistry. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 62 kDa in size corresponding to phosphorylated Pdc4 protein by western blotting in the appropriate cell lysate or extract. This phospho-specific monoclonal antibody reacts with human Pdc4 pS457 and shows minimal reactivity by ELISA against the non-phosphorylated form of the immunizing peptide.