

Datasheet for 200-306-964

## Pdcd4 phospho S457 Antibody Biotin Conjugated

### Overview

<b>Description:</b>	Anti-Pdcd4 pS457 (MOUSE) Monoclonal Antibody Biotin Conjugated - 200-306-964
<b>Item No.:</b>	200-306-964
<b>Size:</b>	50 µg
<b>Applications:</b>	ELISA, WB
<b>Reactivity:</b>	Human, Mouse, Rat, Xenopus
<b>Host Species:</b>	Mouse

### Product Details

<b>Background:</b>	Programmed cell death 4 (Pdcd4) is a novel tumor suppressor. 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.
<b>Synonyms:</b>	mouse anti-Pdcd4 pS457 Antibody biotin conjugation, biotin conjugated mouse anti-Pdcd4 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
<b>Host Species:</b>	Mouse
<b>Conjugate:</b>	Biotin
<b>Clonality:</b>	Monoclonal
<b>Clone ID:</b>	9G6
<b>Format:</b>	IgG1

### Target Details

<b>Gene Name:</b>	PDCD4
<b>Reactivity:</b>	Human, Mouse, Rat, Xenopus

<b>PTM Specificity:</b>	Phosphorylation
<b>Immunogen Type:</b>	Conjugated Peptide
<b>Immunogen:</b>	This monoclonal antibody was produced by repeated immunizations with a synthetic peptide corresponding to residues surrounding Ser457 of the human Pdcd4 protein.
<b>Purity/Specificity:</b>	Anti-Pdcd4 pS457 (MOUSE) Monoclonal Antibody Biotin Conjugated 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.
<b>Relevant Links:</b>	<ul style="list-style-type: none"><li>• <a href="#">UniProtKB - Q53EL6</a></li><li>• <a href="#">GeneID - 27250</a></li><li>• <a href="#">NCBI - 21735596</a></li></ul>

## Application Details

<b>Tested Applications:</b>	ELISA, WB
<b>Application Note:</b>	Anti-Pdcd4 pS457 (MOUSE) Monoclonal Antibody Biotin Conjugated 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 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.
<b>Assay Dilutions:</b>	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
<b>ELISA:</b>	1:20,000 - 1:100,000
<b>IP:</b>	1:1,000 - 1:5,000
<b>WB:</b>	1:2,000 - 1:10,000
<b>Other:</b>	This lot has additional BSA. To help prevent loss of product during aliquoting, it may be restored with 250 ul of deionized water (additional 150ul) to give a concentration of 0.2 mg/ml.

## Formulation

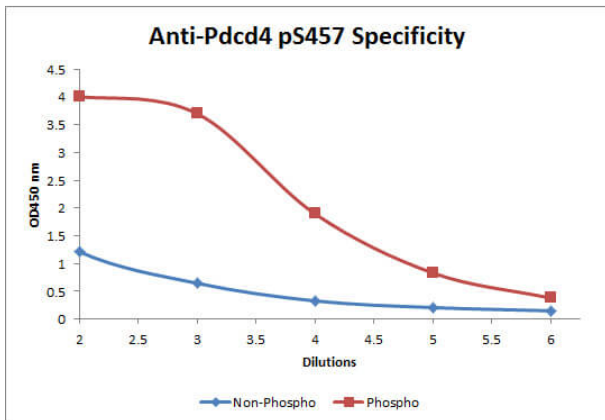
<b>Physical State:</b>	Lyophilized
<b>Concentration:</b>	0.5 mg/mL by UV absorbance at 280 nm
<b>Buffer:</b>	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

<b>Preservative:</b>	0.01% (w/v) Sodium Azide
<b>Stabilizer:</b>	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
<b>Reconstitution Volume:</b>	100 $\mu$ L
<b>Reconstitution Buffer:</b>	Restore with deionized water (or equivalent)

## Shipping & Handling

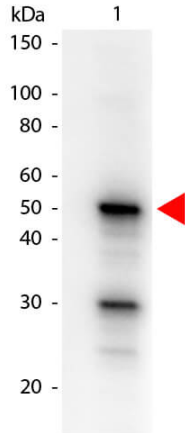
<b>Shipping Condition:</b>	Ambient
<b>Storage Condition:</b>	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
<b>Expiration:</b>	Expiration date is one (1) year from date of receipt.

## Images



### ELISA

ELISA of Mouse anti-Pdcd4 phospho S457 Biotin Conjugated antibody. Antigen: BSA conjugates of Pdcd4 phospho S457 and Pdcd4 non-phospho S457. Coating amount: 0.1  $\mu$ g per well. Primary antibody: Pdcd4 phospho S457 Biotin Conjugated antibody at 5  $\mu$ g/mL. Dilution series: 3-fold. Mid-point concentration: 5 ng/mL Pdcd4 phospho S457 Biotin Conjugated antibody. Secondary antibody: Peroxidase streptavidin secondary antibody at 1:10,000. Substrate: TMB (p/n TMBE-0100)

**Western Blot**

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: MB-070 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

**Disclaimer**

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.