

Datasheet for 600-401-965-RTU**Ready-To-Use Pdcd4 Antibody****Overview**

Description:	Ready-To-Use Anti-Pdcd4 (RABBIT) Antibody - 600-401-965-RTU
Item No.:	600-401-965-RTU
Size:	100 µL
Applications:	WB, IP
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	This antibody is designed, produced, and validated as part of a collaboration between Rockland and the National Cancer Institute (NCI) and is suitable for Cancer, Immunology and Nuclear Signaling research. 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. All Rockland Immunochemical's Pdcd4 antibodies are affinity-purified to assure both high affinity and specificity. Rigorous quality control testing ensures that the finished product meets or exceeds out high standards for optimum performance in your assays.
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
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PDCD4
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Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding amino acids near the carboxyl terminus of human Pdc4 protein.
Purity/Specificity:	RTU Anti-Pdc4 affinity purified antibody is directed against human Pdc4 protein. The product was affinity purified from monospecific antiserum by immunoaffinity chromatography. 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. The antibody reacts with Pdc4 protein that is either phosphorylated or non-phosphorylated at Ser457.
Relevant Links:	• UniProtKB - Q53EL6 • NCBI - 21735596 • GeneID - 27250

Application Details

Tested Applications:	WB
Suggested Applications:	IP (Based on references)
Application Note:	Ready-To-Use Anti-Pdc4 antibody has been optimized and validated in western blot using 1:1000 dilution. This Anti-SMAD3 (RTU) Antibody is sufficient to run 10 western blots. Expect a band approximately 52 kDa in size corresponding to Pdc4 protein by western blotting in the appropriate cell lysate or extract. Although not tested, this antibody is likely functional in ELISA, immunoprecipitation, and immunohistochemistry. Optimal titers for these applications should be determined by the researcher.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	User Optimized
IHC:	User Optimized
IP:	User Optimized
WB:	1:1,000

Formulation

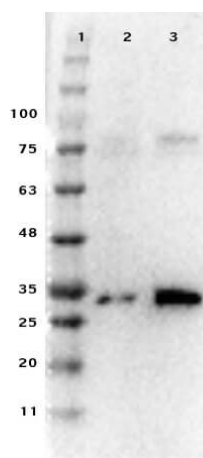
Physical State:	Liquid (sterile filtered)
Concentration:	sufficient to run 10 immunoblot tests

Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	0.01% Bovine Serum Albumin (BSA), 25% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at 2-8° C prior to opening. May 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. Dilute only prior to use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot Results of Ready to Use Rabbit Anti-Pdcd4 Antibody. Lane 1: Opal Pre-stained Molecular Weight Ladder (p/n MB-210-0500). Lane 2: HEK293T WC lysate (p/n W09-001-GX5). Lane 3: HeLa WC Lysate (p/n W09-000-364). Load: 10µL. Primary Antibody: Ready to Use Rabbit Anti-Pdcd4 Antibody 1:1000 overnight at 4°C. Secondary Antibody: Goat Anti-Rabbit HRP (p/n 611-103-122) at 1:70,000 for 30 min RT. Block: BlockOut Buffer (p/n MB-073). Expect: ~52 kDa. Observed: ~35kDa.

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.