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Datasheet for 200-306-964

Pdcd4 phospho S457 Antibody Biotin Conjugated

Overview

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

Product Details

Background:	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.
Synonyms:	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
Host Species:	Mouse
Conjugate:	Biotin
Clonality:	Monoclonal
Clone ID:	9G6
Format:	IgG1

Target Details

Gene Name:	PDCD4
Reactivity:	Human, Mouse, Rat, Xenopus

PTM Specificity:	Phosphorylation
Immunogen Type:	Conjugated Peptide
Immunogen:	This monoclonal antibody was produced by repeated immunizations with a synthetic phospho-peptide corresponding to residues surrounding Ser457 of the human Pdcd4 protein.
Purity/Specificity:	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.
Relevant Links:	• UniProtKB - Q53EL6 • GeneID - 27250 • NCBI - 21735596

Application Details

Tested Applications:	ELISA, WB
Application Note:	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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:20,000 - 1:100,000
IP:	1:1,000 - 1:5,000
WB:	1:2,000 - 1:10,000
Other:	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

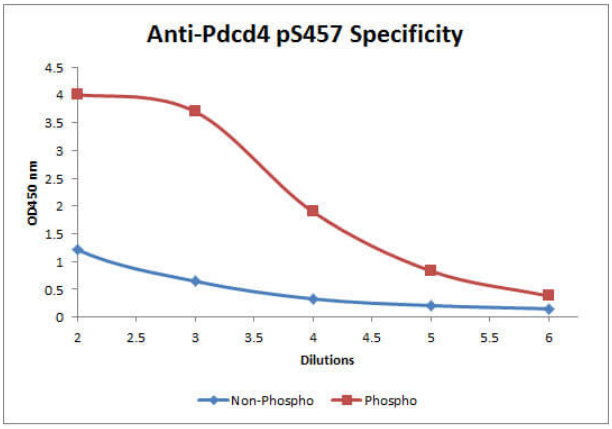
Physical State:	Lyophilized
Concentration:	0.5 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

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

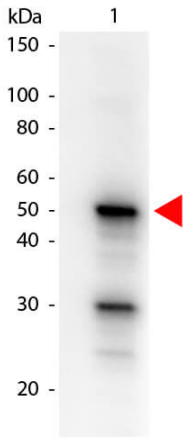
Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	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:	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 µg per well. Primary antibody: Pdcd4 phospho S457 Biotin Conjugated antibody at 5 µg/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.