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Certificate of Analysis

Product: Affinity Purified Anti-ATDC [Rabbit] TRIAL SIZE

Code: 600-401-B15S

Lot # 22616

Size: 25 μ L

Physical State: Liquid (sterile filtered)

Antibody Concentration: 0.67 mg/ml (by UV absorbance at 280 nm)

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Stabilizer: None

Preservative: 0.01% (w/v) Sodium Azide

Storage Conditions for Trial Size: Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 μ l). To minimize loss of volume dilute 1:10 by adding 225 μ l of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20° C or below after dilution. Avoid cycles of freezing and thawing. Expiration date is three (3) months from date of opening.

Background Information: Ataxia-telangiectasia group D-associated protein (ATDC), also called tripartite motif-containing protein 29 (TRIM29), is a novel Histone deacetylase (HDAC) associated protein. Its function is tightly regulated by HDAC. ATDC Lysine 116 (K116) is acetylated and has a significant functional role in regulating cell survival and tumorigenesis. ATDC is expressed in placenta, prostate and thymus, and is over expressed in pancreatic and cervical tumors. Its function in tumor cells is not fully understood. It is constitutively phosphorylated by PKC on serine/threonine in A431 cells. The ATDC gene product is one of a group of proteins that share multiple zinc finger motifs and an adjacent leucine zipper motif. These proteins have been proposed to form homo- or heterodimers involved in nucleic acid binding, consistent with the fact that many of these proteins appear to be transcriptional regulatory factors involved in carcinogenesis and/or differentiation. The likelihood that the ATDC gene product is involved in transcriptional regulation could explain the pleiomorphic characteristics of AT, including abnormal cell cycle regulation.

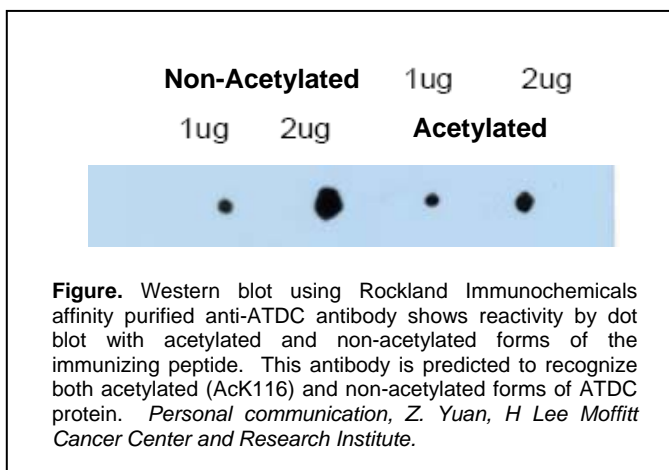


Figure. Western blot using Rockland Immunochemicals affinity purified anti-ATDC antibody shows reactivity by dot blot with acetylated and non-acetylated forms of the immunizing peptide. This antibody is predicted to recognize both acetylated (AcK116) and non-acetylated forms of ATDC protein. *Personal communication, Z. Yuan, H Lee Moffitt Cancer Center and Research Institute.*

Application Note(s): This affinity purified antibody has been tested for use in ELISA and western blotting. Specific conditions for reactivity and detection of ATDC should be optimized by the end user. Expect a band approximately ~66 kDa in size corresponding to ATDC by western blotting in the appropriate cell lysate or extract.

Recommended Dilutions:	ELISA	1:100,000
	WESTERN BLOT	1:500 to 3,000
	IMMUNOPRECIPITATION	User Optimized
	IF MICROSCOPY	User Optimized
	OTHER APPLICATIONS	User Optimized

Purity and Specificity: This product was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody reacts with over-expressed, acetylated and non-acetylated (at K116) ATDC protein. A BLAST analysis was used to suggest cross-reactivity with ATDC from human, horse, bovine, chimpanzee and macaque based on a 100% homology with the immunizing sequence. Partial reactivity is expected against rat and mouse ATDC based on 92% homology with the immunizing sequence. Cross-reactivity with ATDC from other sources has not been determined.

Immunogen: This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a peptide corresponding to an internal portion of human ATDC protein around lysine 116.

Relevant Links: NCBI [NP_036233](#) Swiss-Prot [Q14134](#)

Related Products:

# 611-703-127	Peroxidase Conjugated Affinity Purified Anti-RABBIT IgG (H&L) (DONKEY) MX10
# 611-132-122	IRDye® 800 Conjugated Affinity Purified Anti-RABBIT IgG (H&L) (GOAT) MX10
# 611-145-122	DyLight™ 680 Conjugated Affinity Purified Anti-RABBIT IgG (H&L) (GOAT) MX10
# B501-0500	BLOTTO (500 g)
# BSA-30	30% BOVINE SERUM ALBUMIN SOLUTION in 0.85% sodium chloride (no preservative or stabilizer) (500 ml)
# B304	NORMAL GOAT SERUM (NGS) (10 ml)
# KIA-003	MaxTag™ Anti-RABBIT IgG Kit for Immunoblotting
# MB-070	Blocking Buffer for Fluorescent Western Blotting

General References:

Kapp LN, Painter RB, Yu LC, van Loon N, Richard CW 3rd, James MR, Cox DR, Murnane JP. Cloning of a candidate gene for ataxia-telangiectasia group D. *Am J Hum Genet.* 1992 Jul;51(1):45-54.

Brzoska PM, Chen H, Zhu Y, Levin NA, Disatnik MH, Mochly-Rosen D, Murnane JP, Christman MF. The product of the ataxia-telangiectasia group D complementing gene, ATDC, interacts with a protein kinase C substrate and inhibitor. *Proc Natl Acad Sci U S A.* 1995 Aug 15;92(17):7824-8.

Leonhardt EA, Kapp LN, Young BR, Murnane JP. (1994) Nucleotide sequence analysis of a candidate gene for ataxia-telangiectasia group D (ATDC). *Genomics.* Jan 1;19(1):130-6

Note: 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 326, Gilbertsville, Pennsylvania, USA.