

Datasheet for 600-401-B16S**ATDC Ac-K116 Antibody****Overview**

Description:	Anti-ATDC Ac-K116 (RABBIT) Antibody - 600-401-B16S
Item No.:	600-401-B16S
Size:	25 µL
Applications:	ELISA, WB
Reactivity:	Human, Bovine, Chimpanzee, Horse, Macaque Monkey
Host Species:	Rabbit

Product Details

Background:	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.
Synonyms:	rabbit anti-ATDC Ac-K116 Antibody, rabbit anti-ATDC acetylated Lys116 Antibody, Ataxia-telangiectasia group D associated protein antibody, FLJ36085 antibody, TRIM 29 antibody, Tripartite motif containing protein 29 antibody, TRIM-29
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TRIM29
-------------------	--------

Reactivity:	Human, Bovine, Chimpanzee, Horse, Macaque Monkey
Immunogen Type:	Conjugated Peptide
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.
Purity/Specificity:	This product was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody reacts with over-expressed, acetylated lysine ATDC protein. A BLAST analysis was used to suggest cross-reactivity with ATDC from human, horse, cattle, 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.
Relevant Links:	• NCBI - 17402909 • UniProtKB - Q14134 • GeneID - 23650

Application Details

Tested Applications:	ELISA, WB
Application Note:	This affinity purified antibody has been tested for use in ELISA and western blotting. Specific conditions for reactivity and detection of ATDC Ac-K116 should be optimized by the end user. Expect a band approximately ~66 kDa in size corresponding to ATDC Ac-K116 by western blotting in the appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:100,000
WB:	1:500 to 3,000

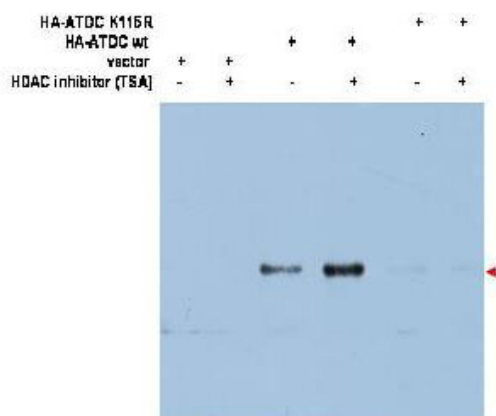
Formulation

Physical State:	Liquid (sterile filtered)
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
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL 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:	Expiration date is three (3) months from date of receipt.

Images



Western Blot

Western blot using Rockland's affinity purified anti-ATDC (Ac-K116) antibody shows detection of a 66 kDa band corresponding to over-expressed, acetylated lysine (K116) ATDC (arrowhead) in transfected 293T cells. No staining is noted for cells transfected with empty vector only. No staining is noted for cells transfected with an ATDC K116R mutant (K to R transversion lacks site for acetylation). In each instance, samples were prepared with and without TSA (1.3uM, 6 hr) which inhibits deacetylation. Personal communication, Z. Yuan, H Lee Moffitt Cancer Center and Research Institute.

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.