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Datasheet for ABIN2777891

anti-ATXN7 antibody (Middle Region)

1 Image

1 Publication

Overview

Quantity:	100 µL
Target:	ATXN7
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Rabbit, Dog, Guinea Pig, Horse, Cow, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATXN7 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human ATXN7
Sequence:	TRSLTCKTHS LTQRRAVQGR RKRFDVLLAE HKNKTREKEL IRHPDSQQPP
Predicted Reactivity:	Cow: 92%, Dog: 92%, Guinea Pig: 85%, Horse: 85%, Human: 100%, Mouse: 85%, Pig: 92%, Rabbit: 92%, Rat: 92%
Characteristics:	This is a rabbit polyclonal antibody against ATXN7. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	ATXN7
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Target Details

Alternative Name: [ATXN7 \(ATXN7 Products\)](#)

Background: ATXN7 is involved in neurodegeneration. ATXN7 acts as component of the STAGA transcription coactivator-HAT complex. ATXN7 mediates the interaction of STAGA complex with the CRX and is involved in CRX-dependent gene activation. The autosomal dominant cerebellar ataxias (ADCA) are a heterogeneous group of neurodegenerative disorders characterized by progressive degeneration of the cerebellum, brain stem and spinal cord. Clinically, ADCA has been divided into three groups: ADCA types I-III. ADCA I is genetically heterogeneous, with five genetic loci, designated spinocerebellar ataxia (SCA) 1, 2, 3, 4 and 6, being assigned to five different chromosomes. ADCA II, which always presents with retinal degeneration (SCA7), and ADCA III often referred to as the 'pure' cerebellar syndrome (SCA5), are most likely homogeneous disorders. Several SCA genes have been cloned and shown to contain CAG repeats in their coding regions. ADCA is caused by the expansion of the CAG repeats, producing an elongated polyglutamine tract in the corresponding protein. The expanded repeats are variable in size and unstable, usually increasing in size when transmitted to successive generations. This locus has been mapped to chromosome 3, and it has been determined that the diseased allele associated with Spinocerebellar ataxia-7, contains 38-130 CAG repeats (near the N-terminus), compared to 7-17 in the normal allele. The exact function of this gene is not known, however, since the encoded protein contains a nuclear localization sequence, and is found to be localized in the nucleus, it has been postulated to be a potential transcription factor. Alternative splicing, resulting in transcript variants encoding different isoforms, has been noted for this gene.

Alias Symbols: ADCA II, OPCA3, SCA7

Protein Interaction Partner: VCP, USP22, PICK1, TP53BP2, RAD23A, ATXN7L3, ENY2, PIAS1, SUMO1, UBE2I, SUMO2, KAT2A, AGRN, LRSAM1, ADAM33, CEP70, COG6, TRIM54, CEP72, RNF31, PPP1R12C, CRIM1, TXNDC11, EFEMP2, UBQLN2, CARD10, NOC2L, NUP62, MPRIP, SPRY1, GPRASP1, PNMA1, RABEP1, KALRN, LTB

Protein Size: 892

Molecular Weight: 95 kDa

Gene ID: 6314

NCBI Accession: [NM_000333](#), [NP_000324](#)

UniProt: [O15265](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 892 AA

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: Lot specific

Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

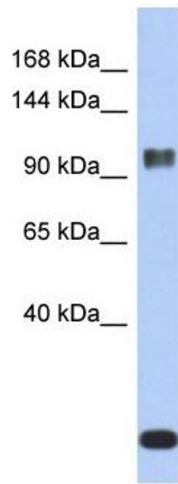
Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -20 °C

Storage Comment: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in: Sun, Zhou, Yin, Ding, Zhong: "Silencing of ZNF217 gene influences the biological behavior of a human ovarian cancer cell line." in: **International journal of oncology**, Vol. 32, Issue 5, pp. 1065-71, (2008) ([PubMed](#)).



Western Blotting

Image 1. WB Suggested Anti-ATXN7 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:62500 Positive Control: ACHN cell lysate