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# ATXN7 Antibody (Center) Blocking Peptide

**Synthetic peptide**
**Catalog # BP16926c**

## Specification

### ATXN7 Antibody (Center) Blocking Peptide - Product Information

Primary Accession O15265

### ATXN7 Antibody (Center) Blocking Peptide - Additional Information

**Gene ID** 6314

**Other Names**
Ataxin-7, Spinocerebellar ataxia type 7 protein, ATXN7, SCA7

**Format**
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

### ATXN7 Antibody (Center) Blocking Peptide - Protein Information

**Name** ATXN7

**Synonyms** SCA7 {ECO:0000303|PubMed:9288099}

**Function**
Acts as a component of the STAGA transcription coactivator- HAT complex (PubMed:<a href="http://www.uniprot.org/citations/15932940" target="_blank">15932940</a>, PubMed:<a href="http://www.uniprot.org/citations/18206972" target="_blank">18206972</a>). Mediates the interaction of STAGA complex with the CRX and is involved in CRX- dependent gene activation (PubMed:<a href="http://www.uniprot.org/citations/15932940" target="_blank">15932940</a>, PubMed:<a href="http://www.uniprot.org/citations/18206972" target="_blank">18206972</a>). Necessary for microtubule cytoskeleton stabilization (PubMed:<a href="http://www.uniprot.org/citations/22100762" target="_blank">22100762</a>).

**Cellular Location**
[Isoform a]: Nucleus. Nucleus, nucleolus. Nucleus matrix. Cytoplasm, cytoskeleton. Note=In addition to a diffuse distribution throughout the nucleus, it is associated with the nuclear matrix and the nucleolus (PubMed:10441328). It is able to shuttle between the nucleus and cytoplasm (PubMed:16314424)

**Tissue Location**

[Isoform a]: Isoform a is expressed in CNS, but is expressed predominantly in the peripherical tissues

## ATXN7 Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

## ATXN7 Antibody (Center) Blocking Peptide - Images

## ATXN7 Antibody (Center) Blocking Peptide - Background

The autosomal dominant cerebellar ataxias (ADCA) are aheterogeneous group of neurodegenerative disorders characterized byprogressive degeneration of the cerebellum, brain stem and spinalcord. Clinically, ADCA has been divided into three groups: ADCAtypes I-III. ADCAI is genetically heterogeneous, with five geneticloci, designated spinocerebellar ataxia (SCA) 1, 2, 3, 4 and 6,being assigned to five different chromosomes. ADCAII, which alwayspresents with retinal degeneration (SCA7), and ADCAIII oftenreferred to as the 'pure' cerebellar syndrome (SCA5), are mostlikely homogeneous disorders. Several SCA genes have been clonedand shown to contain CAG repeats in their coding regions. ADCA iscaused by the expansion of the CAG repeats, producing an elongatedpolyglutamine tract in the corresponding protein. The expandedrepeats are variable in size and unstable, usually increasing insize when transmitted to successive generations. This locus hasbeen mapped to chromosome 3, and it has been determined that thediseased allele associated with spinocerebellar ataxia-7 contains38-130 CAG repeats (near the N-terminus), compared to 7-17 in thenormal allele. The encoded protein is a component of theSPT3/TAF9/GCN5 acetyltransferase (STAGA) and TBP-freeTAF-containing (TFTC) chromatin remodeling complexes, and it thusplays a role in transcriptional regulation. Alternative splicingresults in multiple transcript variants.

## ATXN7 Antibody (Center) Blocking Peptide - References

Bonnet, J., et al. EMBO Rep. 11(8):612-618(2010)Han, Y., et al. Neurol India 58(4):622-626(2010)Chou, A.H., et al. Neurochem. Int. 56(2):329-339(2010)Mookerjee, S., et al. J. Neurosci. 29(48):15134-15144(2009)Freund, A.A., et al. Arq Neuropsiquiatr 67(4):1124-1132(2009)