

ATXN1 Antibody
Purified Mouse Monoclonal Antibody
Catalog # AO1498a**Specification**

ATXN1 Antibody - Product Information

Application	WB, IHC, FC, ICC, E
Primary Accession	P54253
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	87kDa KDa

Description

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. The function of the ataxins is not known. This locus has been mapped to chromosome 6, and it has been determined that the diseased allele contains 41-81 CAG repeats, compared to 6-39 in the normal allele. At least two transcript variants encoding the same protein have been found for this gene. Tissue specificity: Widely expressed throughout the body.

Immunogen

Purified recombinant fragment of human ATXN1 expressed in E. Coli.

Formulation

Ascitic fluid containing 0.03% sodium azide.

ATXN1 Antibody - Additional Information

Gene ID 6310

Other Names

Ataxin-1, Spinocerebellar ataxia type 1 protein, ATXN1, ATX1, SCA1

Dilution

WB~~1/500 - 1/2000

IHC~~1/200 - 1/1000

FC~~1/200 - 1/400

ICC~~N/A

E~~N/A

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ATXN1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

ATXN1 Antibody - Protein Information

Name ATXN1

Synonyms ATX1, SCA1

Function

Chromatin-binding factor that repress Notch signaling in the absence of Notch intracellular domain by acting as a CBF1 corepressor. Binds to the HEY promoter and might assist, along with NCOR2, RBPJ- mediated repression. Binds RNA in vitro. May be involved in RNA metabolism (PubMed:21475249). In concert with CIC and ATXN1L, involved in brain development (By similarity).

Cellular Location

Cytoplasm. Nucleus Note=Colocalizes with USP7 in the nucleus

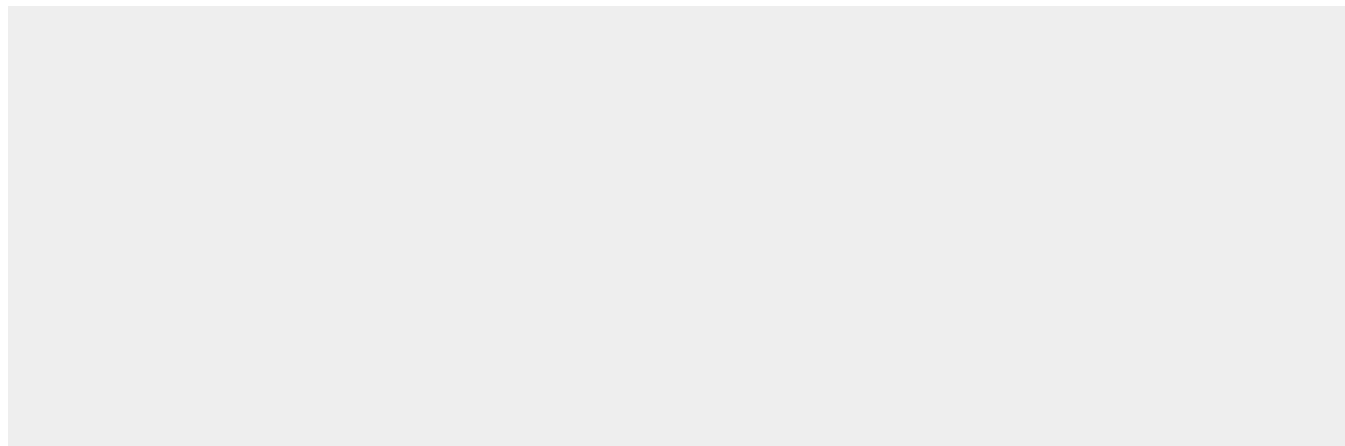
Tissue Location

Widely expressed throughout the body.

ATXN1 Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ATXN1 Antibody - Images

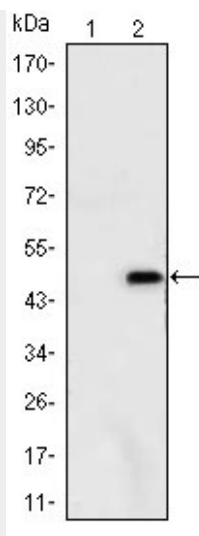


Figure 1: Western blot analysis using ATXN1 mAb against HEK293 (1) and ATXN1(AA: 645-815)-hlgGfc transfected HEK293 (2) cell lysate.

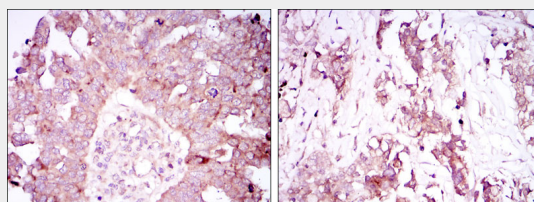


Figure 2: Immunohistochemical analysis of paraffin-embedded ovarian cancer tissues (left) and lung cancer tissues (right) using ATXN1 mouse mAb with DAB staining.

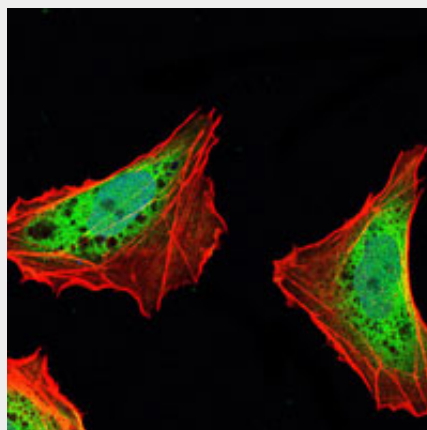


Figure 3: Immunofluorescence analysis of NTERA-2 cells using ATXN1 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.

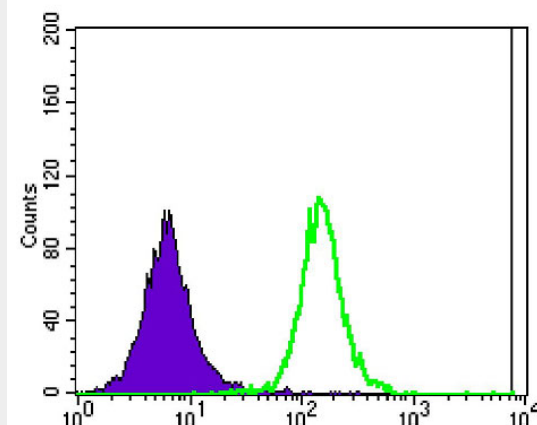


Figure 4: Flow cytometric analysis of Jurkat cells using ATXN1 mouse mAb (green) and negative control (purple).

ATXN1 Antibody - References

1. Nature. 2008 Apr 10;452(7188):713-8.
2. Biochem Biophys Res Commun. 2008 Jun 27;371(2):256-60.
3. Indian J Med Res. 2007 Nov;126(5):465-70.