

Product Name: Ataxin-1 (phospho Ser776) Rabbit Polyclonal Antibody Catalog #: APRab04271

For research use only.

Summary

Description Rabbit polyclonal Antibody

Host Rabbit

Application WB,IHC,ICC/IF,ELISA

ReactivityHuman, MouseConjugationUnconjugatedModificationPhosphorylated

Isotype IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

Storage Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

Shipping Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer**

preservative N.

Purification Affinity purification

Application

Dilution Ratio WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:5000-1:20000

Molecular Weight 87kDa

Antigen Information

Gene Name ATXN1

Alternative Names ATXN1; ATX1; SCA1; Ataxin-1; Spinocerebellar ataxia type 1 protein

 Gene ID
 6310.0

 SwissProt ID
 P54253

The antiserum was produced against synthesized peptide derived from human Ataxin 1 Immunogen

around the phosphorylation site of Ser776. AA range:742-791

Background

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838

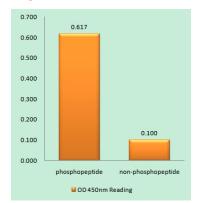


neurodegenerative disorders characterized by progressive degeneration of the cerebellum, brain stem and spinal cord. Clinically, ADCA has been divided into three groups: ADCA types I-III. ADCAI is genetically heterogeneous, with five genetic loci, designated spinocerebellar ataxia (SCA) 1, 2, 3, 4 and 6, being assigned to five different chromosomes. ADCAII, which always presents with retinal degeneration (SCA7), and ADCAIII 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 transmittedalternative products:At least 2 isoforms are produced, disease:Defects in ATXN1 are the cause of spinocerebellar ataxia type 1 (SCA1) [MIM:164400]; also known as olivopontocerebellar atrophy I (OPCA I or OPCA1). Spinocerebellar ataxia is a clinically and genetically heterogeneous group of cerebellar disorders. Patients show progressive incoordination of gait and often poor coordination of hands, speech and eye movements, due to cerebellum degeneration with variable involvement of the brainstem and spinal cord. SCA1 belongs to the autosomal dominant cerebellar ataxias type I (ADCA I) which are characterized by cerebellar ataxia in combination with additional clinical features like optic atrophy, ophthalmoplegia, bulbar and extrapyramidal signs, peripheral neuropathy and dementia. SCA1 is caused by expansion of a CAG repeat in the coding region of ATXN1. Longer expansions result in earlier onset and more severe clinical manifestations of the disease, domain: The AXH domain is required for interaction with CIC., function: Binds RNA in vitro. May be involved in RNA metabolism. The expansion of the polyglutamine tract may alter this function, miscellaneous: The self-association seems to be necessary to form nuclear aggregates., online information: Ataxin-1 entry, polymorphism: The poly-Gln region of ATXN1 is highly polymorphic (4 to 39 repeats) in the normal population and is expanded to about 40-83 repeats in spinocerebellar ataxia 1 (SCA1) patients., similarity: Belongs to the ATXN1 family., similarity: Contains 1 AXH domain., subcellular location: Colocalizes with USP7 in the nucleus., subunit: Interacts with CIC (By similarity). Interacts with ANP32A, PQBP1, UBIN, ATXN1L, USP7 and ZNF804A., tissue specificity: Widely expressed throughout the body.,

Research Area

Epigenetics and Nuclear Signaling

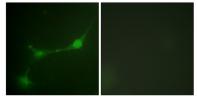
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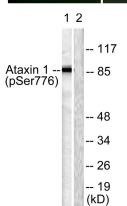


Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Ataxin 1 (Phospho-Ser776) Antibody

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Immunofluorescence analysis of NIH/3T3 cells, using Ataxin 1 (Phospho-Ser776) Antibody. The picture on the right is blocked with the phospho peptide.

Western blot analysis of lysates from HepG2 cells treated with Adriamycin 0.5uM 5h, using Ataxin 1 (Phospho-Ser776) Antibody. The lane on the right is blocked with the phospho peptide.