

Ataxin-1 (Phospho Ser776) Rabbit pAb

CatalogNo: YP0536 **Orthogonal Validated** 

Key Features

Host Species

- Rabbit

Reactivity

- Human, Mouse

Applications

- WB, IHC, IF, ELISA

MW

- 87kD (Observed)

Isotype

- IgG

Storage

Storage* -15°C to -25°C/1 year (Do not lower than -25°C)

Formulation Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Recommended Dilution Ratios

WB 1:500-1:2000

IHC 1:100-1:300

IF 1:200-1:1000

ELISA 1:10000

Not yet tested in other applications.

Basic Information

Clonality Polyclonal

Immunogen Information

Immunogen The antiserum was produced against synthesized peptide derived from human Ataxin 1 around the phosphorylation site of Ser776. AA range:742-791

Specificity

Phospho-Ataxin-1 (S776) Polyclonal Antibody detects endogenous levels of Ataxin-1 protein only when phosphorylated at S776. The name of modified sites may be influenced by many factors, such as species (the modified site was not originally found in human samples) and the change of protein sequence (the previous protein sequence is incomplete, and the protein sequence may be prolonged with the development of protein sequencing technology). When naming, we will use the "numbers" in historical reference to keep the sites consistent with the reports. The antibody binds to the following modification sequence (lowercase letters are modification sites):RWSAP

Target Information

Gene name ATXN1

Protein Name Ataxin-1

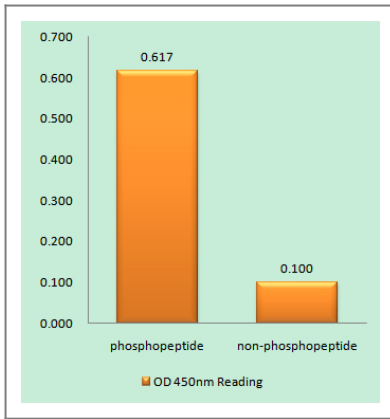
Organism	Gene ID	UniProt ID
Human	6310;	P54253;
Mouse	20238;	P54254;

Cellular Localization Cytoplasm . Nucleus . Colocalizes with USP7 in the nucleus. .

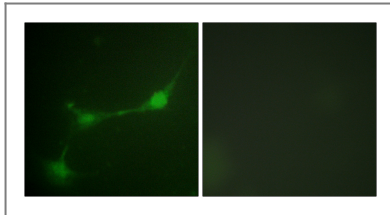
Tissue specificity Widely expressed throughout the body.

Function Alternative 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. ,

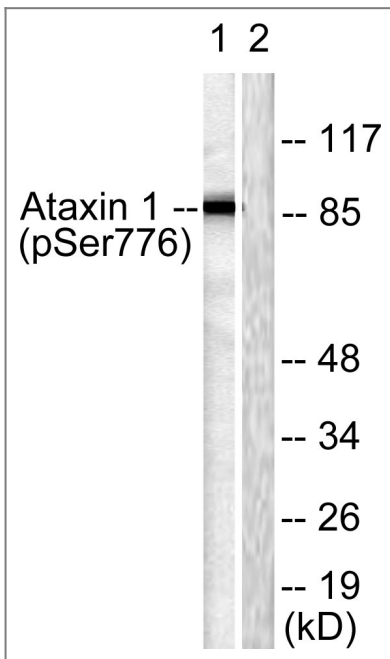
Validation Data



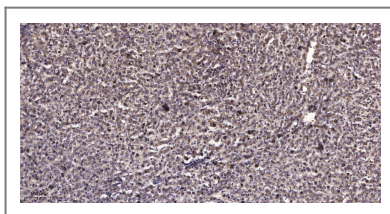
Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Ataxin 1 (Phospho-Ser776) Antibody



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.



Immunohistochemical analysis of paraffin-embedded human liver cancer. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA, pH9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200 (room temperature, 45min).

Contact information

Orders: order.cn@immunoway.com
Support: support.cn@immunoway.com
Telephone: 400-8787-807(China)
Website: http://www.immunoway.com.cn
Address: 2200 Ringwood Ave San Jose, CA 95131 USA



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product information:
**Ataxin-1 (Phospho
Ser776) Rabbit pAb**

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