

Rabbit anti-Human, Mouse Ataxin 1 Polyclonal Antibody | anti-ATXN1 antibody

Phospho-Ataxin 1 (Ser775) Antibody

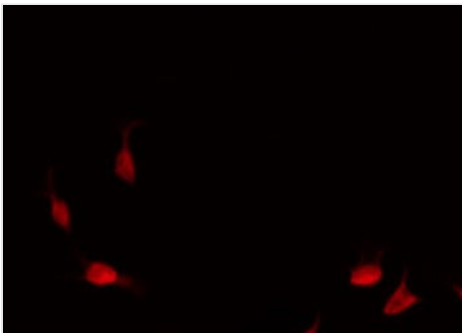
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321651	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

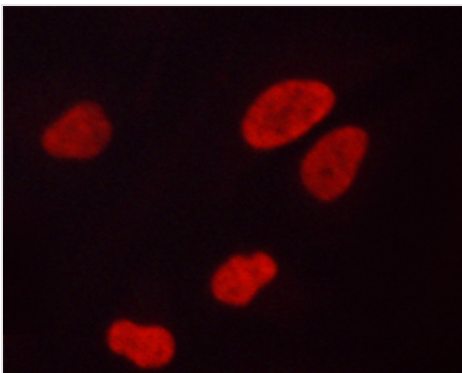
Ataxin 1; Polyclonal Antibody; Phospho-Ataxin 1 (Ser775) Antibody; alternative ataxin1; Ataxin-1; ATX1; ATX1_HUMAN; Atxn1; D6S504E; OTTHUMP00000016065; SCA1; Spinocerebellar ataxia type 1 protein; anti-ATXN1 antibody

PRODUCT SPECIFICATIONS

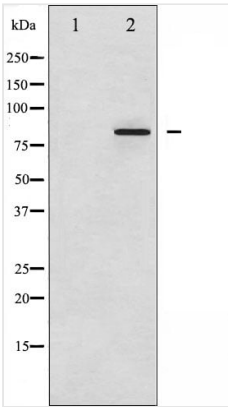
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-Ataxin 1 (Ser775) antibody detects endogenous levels of Ataxin 1 only when phosphorylated at Serine 775
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	815
Applicable Applications for anti-ATXN1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Ataxin 1 around the phosphorylation site of Serine 775
Subcellular Location	Cytoplasm. Nucleus. Colocalizes with USP7 in the nucleus.
Tissue Specificity	Widely expressed throughout the body.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken
Similarity	Pig (100%), Bovine (89%), Horse (89%), Sheep (89%), Rabbit (89%), Dog (89%), Chicken (100%)
Conjugation	Unconjugated
Epitope	Phospho Ser775
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



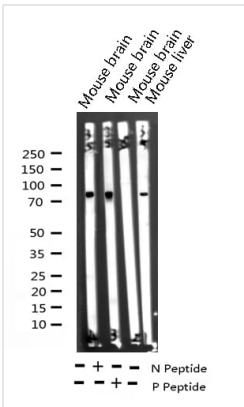
IF (Immunofluorescence)
AAA321651 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



IF (Immunofluorescence)
AAA321651 staining A549 cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37 degree C. The primary antibody was diluted 1/400 and incubated with the sample for 1 hour at 37 degree C. A Alexa Fluor 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibody.



WB (Western Blot)
Western blot analysis of Ataxin 1 phosphorylation expression in Adriamycin treated HepG2 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



WB (Western Blot)
Western blot analysis of Phospho-Ataxin 1 (Ser775) expression in various lysates

ADDITIONAL INFORMATION

Related Product Information for anti-ATXN1 antibody

Description: Ataxin-1 is a spinocerebellar ataxia type 1 (SCA1) protein. Expansion of CAG repeats in the SCA1 gene results in an abnormally long polyglutamine tract in the protein, causing polyglutamine-induced neurodegeneration.

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).

Subunit Structure: Homooligomer (PubMed:9097953). Interacts with CIC (By similarity). Interacts with ANP32A, PQBP1, UBQLN4, ATXN1L and USP7 (PubMed:9353121, PubMed:11001934, PubMed:12062018, PubMed:12093161, PubMed:16121196). Directly interacts with RBPJ; this interaction is disrupted in the presence of Notch intracellular domain. Competes with ATXN1L for RBPJ-binding (PubMed:21475249). Found in a complex with CIC and ATXN1L (By similarity).

Post-translational Modifications: Ubiquitinated by UBE3A, leading to its degradation by the proteasome. The presence of expanded poly-Gln repeats in spinocerebellar ataxia 1 (SCA1) patients impairs ubiquitination and degradation, leading to accumulation of ATXN1 in neurons and subsequent toxicity. Phosphorylation at Ser-775 increases the pathogenicity of proteins with an expanded polyglutamine tract. Sumoylation is dependent on nuclear localization and phosphorylation at Ser-775. It is reduced in the presence of an expanded polyglutamine tract.

Similarity: The AXH domain is required for interaction with CIC. Belongs to the ATXN1 family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	51479158
NCBI GeneID	6310
NCBI Accession #	NP_000323.2
NCBI GenBank Nucleotide #	NM_000332.3
UniProt Accession #	P54253; Q17S02; Q9UJG2; Q9Y4J1
Molecular Weight	Observed: 87 kDa Predicted: 87 kDa
NCBI Official Full Name	ataxin-1 ATXN1
NCBI Official Synonym Full Names	ataxin 1
NCBI Official Symbol	ATXN1
NCBI Official Synonym Symbols	ATX1; SCA1; D6S504E
NCBI Protein Information	ataxin-1
UniProt Protein Name	Ataxin-1
UniProt Gene Name	ATXN1
UniProt Synonym Gene Names	ATX1; SCA1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/ataxin-1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/321651>