

Rabbit Ataxin 3 Polyclonal Antibody | anti-ATXN3 antibody

Phospho-Ataxin 3 (Ser256) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329787	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (86%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)	ELISA, Immunohistochemistry, Western Blot

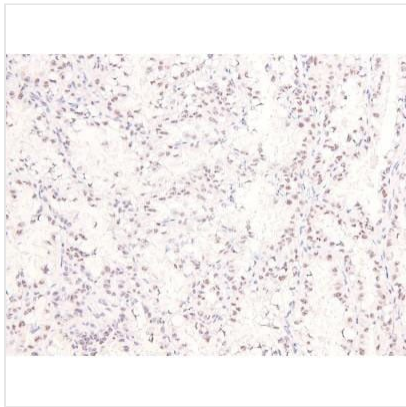
PRODUCT SYNONYMS

Ataxin 3; Polyclonal Antibody; Phospho-Ataxin 3 (Ser256) Antibody; AT3; ataxin 3 variant h; ataxin 3 variant m; ataxin 3 variant ref; Ataxin-3; ATX3; ATX3_HUMAN; ATXN3; EC 3.4.22.; JOS; Josephin; Machado JosephHdisease (spinocerebellar ataxia 3; olivopontocerebellar ataxia 3; autosomal dominant; ataxin 3); Machado JosephHdisease; Machado JosephHdisease protein 1; Machado-JosephHdisease protein 1; Machado-JosephHdisease protein 1 homolog; MJD; MJD gene; MJD1; Olivopontocerebellar ataxia 3; OTTHUMP00000221583; OTTHUMP00000221585; OTTHUMP00000221586; OTTHUMP00000221587; OTTHUMP00000231995; OTTHUMP00000231997; Rsc3; SCA3; SCA3 gene; Spinocerebellar ataxia type 3 protein; anti-ATXN3 antibody

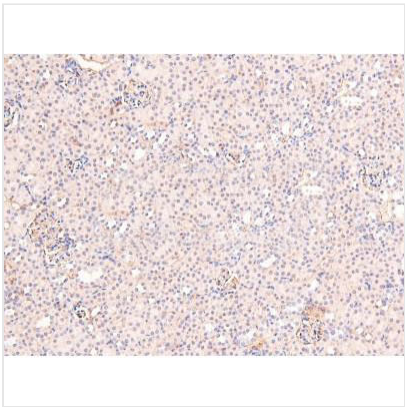
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (86%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (100%), Xenopus (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-Ataxin 3 (Ser256) Antibody detects endogenous levels of Ataxin 3 only when phosphorylated at Ser256. Tissue Specificity: Ubiquitous.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-ATXN3 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Ataxin 3 around the phosphorylation site of Ser256.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Monoubiquitinated N-terminally by UBE2W, possibly leading to activate the deubiquitinating enzyme activity.
Subunit Structure	Interacts with STUB1/CHIP (when monoubiquitinated) (By similarity). Interacts with DNA repair proteins RAD23A and RAD23B. Interacts with BECN1 (via its poly-Gln domain). Interacts with PRKN, UBR2, VCP and tubulin. Short isoform 1 interacts with CASP7.
Similarity	The UIM domains bind ubiquitin and interact with various E3 ubiquitin-protein ligase, such as STUB1/CHIP. They are essential to limit the length of ubiquitin chains (By similarity).The poly-Gln domain is involved in the interaction with BECN1 and subsequent starvation-induced autophagy (PubMed:28445460).
Subcellular Location	Nucleus matrix. Nucleus. Note: Predominantly nuclear, but not exclusively, inner nuclear matrix.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

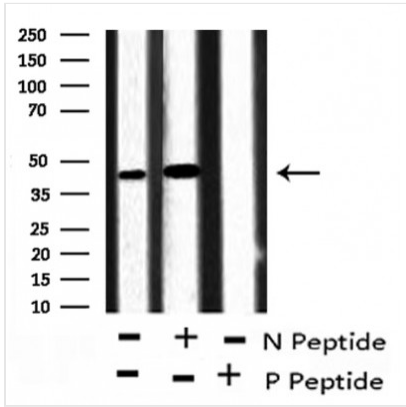
IMAGES



IHC (Immunohistochemistry)
At 1/200 staining Human lung cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
Staining Mouse kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of Ataxin-3 (Phospho-Ser256) using LPS treated HeLa whole cell lysates. -/+ means absence or presence of N peptide/non-phospho peptide) and P peptide(phospho peptide).

ADDITIONAL INFORMATION

Related Product Information for anti-ATXN3 antibody	Deubiquitinating enzyme involved in protein homeostasis maintenance, transcription, cytoskeleton regulation, myogenesis and degradation of misfolded chaperone substrates. Binds long polyubiquitin chains and trims them, while it has weak or no activity against chains of 4 or less ubiquitins. Involved in degradation of misfolded chaperone substrates via its interaction with STUB1/CHIP: recruited to monoubiquitinated STUB1/CHIP, and restricts the length of ubiquitin chain attached to STUB1/CHIP substrates and preventing further chain extension (By similarity). Interacts with key regulators of transcription and represses transcription: acts as a histone-binding protein that regulates transcription. Regulates autophagy via the deubiquitination of 'Lys-402' of BECN1 leading to the stabilization of BECN1.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	290457685
NCBI GeneID	4287
UniProt Accession #	P54252; O15284; O15285; O15286; Q8N189; Q96TC3; Q96TC4; Q9H3N0; A7LFZ5; D6RDL9; E9PB63
Molecular Weight	364
NCBI Official Full Name	Ataxin-3
NCBI Official Synonym Full Names	ataxin 3

NCBI Official Symbol	ATXN3
NCBI Official Synonym Symbols	AT3; JOS; MJD; ATX3; MJD1; SCA3
NCBI Protein Information	ataxin-3; josephin; ataxin 3 variant h; ataxin 3 variant m; ataxin 3 variant ref; olivopontocerebellar ataxia 3; Machado-Joseph disease protein 1; spinocerebellar ataxia type 3 protein; Machado-Joseph disease (spinocerebellar ataxia 3, olivopontocerebella
UniProt Protein Name	Ataxin-3
UniProt Gene Name	ATXN3
UniProt Synonym Gene Names	ATX3; MJD; MJD1; SCA3
UniProt Entry Name	ATX3_HUMAN

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-3-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/329787>