

Rabbit ATN1 Polyclonal Antibody | anti-ATN1 antibody

ATN1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324499	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

ATN1; Polyclonal Antibody; ATN1 Antibody; Atrophin1; B37; D12S755E; Dentatorubral-pallidoluysian atrophy protein; DRPLA; HRS; NOD; anti-ATN1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ATN1 antibody detects endogenous levels of total ATN1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
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	1190
Applicable Applications for anti-ATN1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Cytoplasm. Nuclear
Tissue Specificity	Widely expressed in various tissues including heart, lung, kidney, ovary, testis, prostate, placenta, skeletal Low levels in the liver, thymus and leukocytes. In the adult brain, broadly expressed in amygdala, caudate nucleus, corpus callosum, hippocampus, hypothalamus, substantia nigra, subthalamic nucleus, and thalamus. High levels in fetal tissues, especially brain.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Xenopus
Similarity	Pig (100%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (80%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of extracts from HeLa cells using ATN1 antibody.



IF (Immunofluorescence)
AAA324499 staining HeLa cells 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) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-ATN1 antibody	Function: Transcriptional corepressor. Recruits NR2E1 to repress transcription. Promotes vascular smooth cell (VSMC) migration and orientation (By similarity). Corepressor of MTG8 transcriptional repression. Has some intrinsic repression activity which is independent of the number of poly-Gln (polyQ) repeats. Subunit Structure: Interacts with NR2E1; the interaction represses the transcriptional activity of NR2E1. Interacts (via its N-terminus) with FAT1 (via a C-terminal domain) (By similarity). Interacts with BAIAP2, WWP1, WWP2, WWP3 and RERE. Interacts (via its N-terminus) with MTG8; the interaction enhances transcriptional repression of MTG8. Interacts with PQBP1. Post-translational Modifications: Phosphorylated in vitro by MAPK8/JNK1 on Ser-739. Mutant ATN1 sequences with expanded poly-Gln (polyQ) traits are more slowly phosphorylated. Proteolytically cleaved, probably in the nucleus, to produce two C-terminal fragments of 140 kDa (F1) and 125 kDa (F2) each containing poly-Gln (polyQ) tracts. F2 is produced by cleavage by caspases and is exported into the cytoplasm. In vitro, cleavage increases with an increase in the number of polyQ tracts. C-terminal proteolytic products appear to be the cause of cell toxicity. In vitro cleavage at Asp-109.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	55750053
NCBI GeneID	1822
NCBI Accession #	NP_001007027.1
NCBI GenBank Nucleotide #	NM_001007026.1
UniProt Accession #	P54259; Q99495; Q99621; Q9UEK7
Molecular Weight	Observed: 130 kD Predicted: 126 kDa
NCBI Official Full Name	atrophin-1
NCBI Official Synonym Full Names	atrophin 1
NCBI Official Symbol	ATN1
NCBI Official Synonym Symbols	B37; HRS; NOD; DRPLA; D12S755E
NCBI Protein Information	atrophin-1
UniProt Protein Name	Atrophin-1
UniProt Gene Name	ATN1
UniProt Synonym Gene Names	D12S755E; DRPLA

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.