

# Ataxin 3 Rabbit mAb

Catalog # AP76395

## Product Information

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Application	WB
Primary Accession	<a href="#">P54252</a>
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal Antibody
Calculated MW	41250

## Additional Information

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Gene ID	4287
Other Names	ATXN3
Dilution	WB~~1/500-1/1000
Format	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% sodium azide and 0.05% BSA.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

## Protein Information

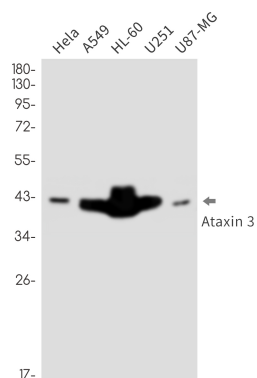
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Name	ATXN3 {ECO:0000303   PubMed:33157014, ECO:0000312   HGNC:HGNC:7106}
Function	<p>Deubiquitinating enzyme involved in protein homeostasis maintenance, transcription, cytoskeleton regulation, myogenesis and degradation of misfolded chaperone substrates (PubMed:<a href="#">12297501</a>, PubMed:<a href="#">16118278</a>, PubMed:<a href="#">17696782</a>, PubMed:<a href="#">23625928</a>, PubMed:<a href="#">28445460</a>, PubMed:<a href="#">33157014</a>). Binds long polyubiquitin chains and trims them, while it has weak or no activity against chains of 4 or less ubiquitins (PubMed:<a href="#">17696782</a>). 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 (PubMed:<a href="#">12297501</a>). Acts as a negative regulator of mTORC1 signaling in response to amino acid deprivation by mediating deubiquitination of RHEB, thereby promoting RHEB inactivation by the TSC-TBC complex (PubMed:<a href="#">33157014</a>). Regulates autophagy via the deubiquitination of 'Lys-402' of BECN1 leading to the stabilization of BECN1 (PubMed:<a href="#">28445460</a>).</p>

<b>Cellular Location</b>	Nucleus matrix. Nucleus. Lysosome membrane; Peripheral membrane protein. Note=Predominantly nuclear, but not exclusively, inner nuclear matrix (PubMed:9580663). Recruited to lysosomal membrane in response to amino acid deprivation by the RagA/RRAGA-RagB/RRAGB complex (PubMed:33157014)
<b>Tissue Location</b>	Ubiquitous.

## Images

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