

Anti-Ataxin 3 antibody ab175265

[3 References](#) [4 Images](#)

Overview

Product name	Anti-Ataxin 3 antibody
Description	Rabbit polyclonal to Ataxin 3
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, IHC-P, WB
Species reactivity	Reacts with: Rat, Human
Immunogen	Recombinant full length protein corresponding to Human Ataxin 3 aa 1-364.

Sequence:

MESIFHEKQEGSLCAQHCLNLLQGEYFSPVELSSIAHQL
 DEEERMMAE
 GGVTSedyrtflqqpsgnmddsgffsiqvsnalkvwgl
 ELILFNSPEYQ
 RLRIDPINERSFICNYKEHWFTVRKLGKQWFNLNSLLTGPE
 LISDTYLAL
 FLAQLQQEGYSIFVVKGDLPDCEADQLQMIRVQQMHRP
 KLIGEELAQLK
 EQRVHKTDLERVLEANDGSGMLDEDEEDLQRALALSRQ
 EIDMEDEEADLR
 RAIQLSMQGSSRNISQDMTQTSGTNLTSEELRKRREAYFE
 KQQKQKQQQ
 QQQQGGDLSGQSSHPCERPATSSGALGSDLGKACSPFI
 MFATFTLYLTye LHVIFALHYSSFPL

Database link: [P54252](#)

 [Run BLAST with](#)

 [Run BLAST with](#)

Positive control MCF7 whole cell lysate ([ab29537](#)) can be used as a positive control in WB. MCF7 cell lysate.

General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 49% PBS, 50% Glycerol
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

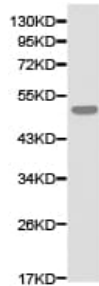
Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab175265 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF		Use at an assay dependent concentration.
IHC-P		1/50 - 1/200. ab171870 - Rabbit polyclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/500 - 1/2000. Predicted molecular weight: 42 kDa.

Target

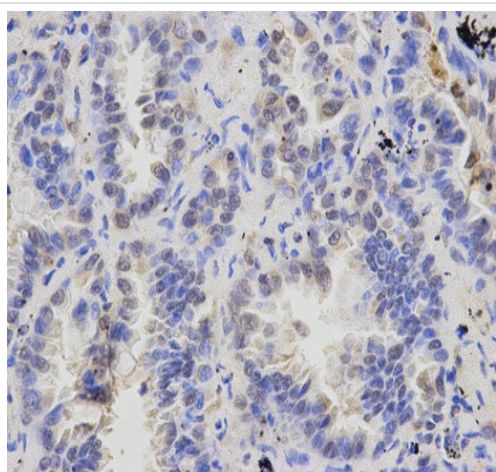
Function	Interacts with key regulators (CBP, p300 and PCAF) of transcription and represses transcription. Acts as a histone-binding protein that regulates transcription. Acts as a deubiquitinating enzyme.
Tissue specificity	Ubiquitous.
Involvement in disease	Defects in ATXN3 are the cause of spinocerebellar ataxia type 3 (SCA3) [MIM:109150]; also known as Machado-Joseph disease (MJD). 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 degeneration of the cerebellum with variable involvement of the brainstem and spinal cord. SCA3 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. The molecular defect in SCA3 is the a CAG repeat expansion in ATXN3 coding region. Longer expansions result in earlier onset and more severe clinical manifestations of the disease.
Sequence similarities	Contains 1 Josephin domain. Contains 3 UIM (ubiquitin-interacting motif) repeats.
Cellular localization	Nucleus matrix. Predominantly nuclear, but not exclusively, inner nuclear matrix.



Western blot - Anti-Ataxin 3 antibody (ab175265)

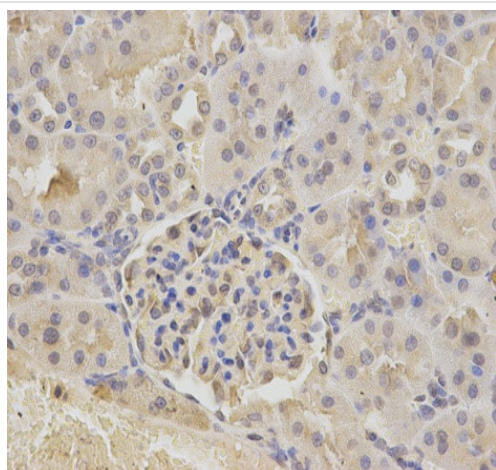
Anti-Ataxin 3 antibody (ab175265) at 1/500 dilution + MCF7 cell lysate

Predicted band size: 42 kDa



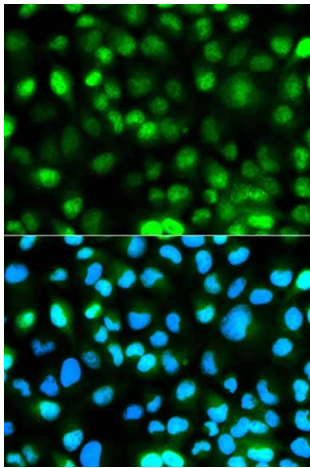
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ataxin 3 antibody (ab175265)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human lung cancer tissue labelling Ataxin 3 with ab175265 at 1/200. Magnification: 400x.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Ataxin 3 antibody (ab175265)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of rat kidney tissue labelling Ataxin 3 with ab175265 at 1/200. Magnification: 400x.



Immunocytochemistry/Immunofluorescence analysis of HeLa cells using ab175265. Blue DAPI for nuclear staining.

Immunocytochemistry/ Immunofluorescence - Anti-Ataxin 3 antibody (ab175265)

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