abcam

Product datasheet

Anti-Ataxin 1 antibody [N65/37] ab186393

2 Images

Overview

Product name	Anti-Ataxin 1 antibody [N65/37]
Description	Mouse monoclonal [N65/37] to Ataxin 1
Host species	Mouse
Specificity	No cross-reactivity against phosphor S751-Ataxin 1. Minimal cross-reactivity against S751A mutant of Ataxin 1 by ELISA and immunofluorescence and negative by immunoblot.
Tested applications	**Suitable for:** WB, ICC
Species reactivity	**Reacts with:** Human, African green monkey
Immunogen	Synthetic peptide corresponding to Mouse Ataxin 1 aa 700 to the C-terminus (C terminal). Database link: **P54254** Run BLAST with Run BLAST with
Positive control	COS cells transiently transfected with Ataxin 1.
General notes	The clone number has been updated from S65-37 to N65/37, both clone numbers name the same antibody clone. 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	Preservative: 0.1% Sodium azide Constituents: 49% PBS, 50% Glycerol (glycerin, glycerine)
Purity	Protein G purified
Clonality	Monoclonal
Clone number	N65/37

Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab186393 in the following tested applications.

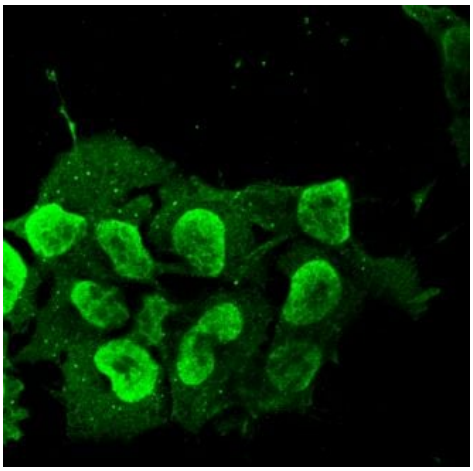
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 84 kDa.
ICC		Use at an assay dependent concentration.

Target

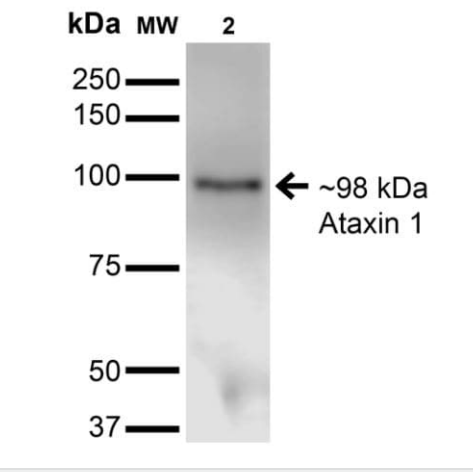
Function	Binds RNA in vitro. May be involved in RNA metabolism. The expansion of the polyglutamine tract may alter this function.
Tissue specificity	Widely expressed throughout the body.
Involvement in disease	Defects in ATXN1 are the cause of spinocerebellar ataxia type 1 (SCA1) [MIM:164400]; also known as olivopontocerebellar atrophy I (OPCA I or OPCA1). 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 cerebellum degeneration with variable involvement of the brainstem and spinal cord. SCA1 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. SCA1 is caused by expansion of a CAG repeat in the coding region of ATXN1. Longer expansions result in earlier onset and more severe clinical manifestations of the disease.
Sequence similarities	Belongs to the ATXN1 family. Contains 1 AXH domain.
Domain	The AXH domain is required for interaction with CIC.
Post-translational modifications	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.
Cellular localization	Cytoplasm. Nucleus. Colocalizes with USP7 in the nucleus.

Images



Immunocytochemistry - Anti-Ataxin 1 antibody [N65/37] (ab186393)

Tissue: Neuroblastoma cell line SK-N-BE. Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Mouse Anti-Ataxin 1 Monoclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Mouse ATTO 488 at 1:100 for 60 min at RT. Localization: Cytoplasm, Nucleus. Magnification: 60X.



Western blot - Anti-Ataxin 1 antibody [N65/37] (ab186393)

Western Blot analysis of Monkey COS-1 cells transfected with Ataxin- 1 showing detection of ~85 kDa Ataxin 1 protein using Mouse Anti-Ataxin 1 Monoclonal Antibody, Clone S65-37. Lane 1: Molecular Weight Ladder. Lane 2: Monkey COS-1 cells transfected with Ataxin- 1. Load: 15 µg . Block: 2% BSA and 2% Skim Milk in 1X TBST. Primary Antibody: Mouse Anti-Ataxin 1 Monoclonal Antibody at 1:200 for 16 hours at 4°C. Secondary Antibody: Goat Anti-Mouse IgG: HRP at 1:1000 for 1 hour RT. Color Development: ECL solution for 6 min in RT. Predicted/Observed Size: ~84 kDa.

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