

Datasheet for 200-301-W87**Ataxin 1 Antibody****Overview**

Description:	Anti-Ataxin 1 (MOUSE) Monoclonal Antibody - 200-301-W87
Item No.:	200-301-W87
Size:	100 µg
Applications:	IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Mouse

Product Details

Background:	Ataxin-1 is a member of the ATXN1 protein family and contains a single AXH domain. It is a neurodegenerative disorder protein thought to have a role in the metabolism of RNA as it has been shown to localize to the RNA and transcription dependent inclusions within the nucleus. A mutation of Ataxin-1 is the cause of spinocerebellar ataxia type-1 (SCA1), a progressive, neurodegenerative disease that is autosomal dominant and primarily affects the Purkinje cells found in brain stem neuronal populations and the cerebellum. Expression of Ataxin-1 is almost ubiquitous, except in the brain where it is isolated to populations of neurons. Anti-Ataxin-1 is ideal for research in Neuroscience.
Synonyms:	Ataxin-1, ATX1, Atxn1, D6S504E, OTTHUMP00000016065, SCA1, Spinocerebellar ataxia type 1 protein, Spinocerebellar ataxia type 1 protein homolog
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	S65-37
Format:	IgG1

Target Details

Gene Name:	Ataxin-1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-Ataxin 1 Antibody was produced by repeated immunization of mice with a synthetic peptide containing amino acids 746-761 of mouse ataxin-1.
Purity/Specificity:	Anti-Ataxin 1 Antibody was purified from concentrated tissue culture supernate by Protein G chromatography. BLAST analysis suggests that it is 93% identical to rat and 87% identical to human.
Relevant Links:	• UniProtKB - P54254 • GeneID - 20238

Application Details

Tested Applications:	IHC, WB
Application Note:	Anti-Ataxin 1 Antibody is suitable for Western Blots and Immunocytochemistry. Expect a band approximately ~85kDa on specific lysates or tissues. 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. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
WB:	1:1000

Formulation

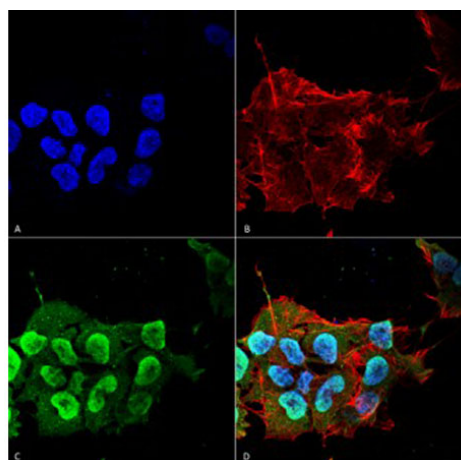
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	1X PBS, pH 7.4
Preservative:	0.1% (w/v) Sodium Azide
Stabilizer:	50% (v/v) Glycerol

Shipping & Handling

Shipping Condition:	Wet Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Immunofluorescence Microscopy

Immunofluorescence of Mouse Anti-Ataxin 1 Monoclonal Antibody.

Tissue: Neuroblastoma cell line (SK-N-BE). Species: Human.

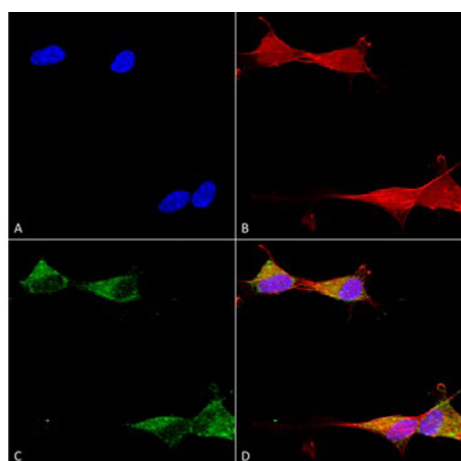
Fixation: 4% Formaldehyde for 15 min at RT.

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.

Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000; 1:5000 for 60 min RT, 5 min RT.

Localization: Cytoplasm, Nucleus. Magnification: 60X. (A) DAPI (blue) nuclear stain. (B) Phalloidin Texas Red F-Actin stain. (C) Ataxin 1 Antibody. (D) Composite.



Immunofluorescence Microscopy

Immunofluorescence of Mouse Anti-Ataxin 1 Monoclonal Antibody.

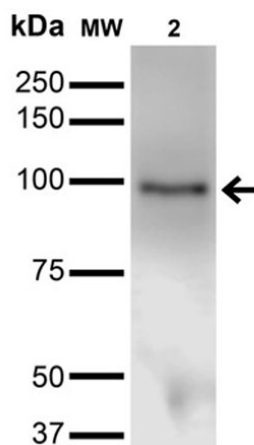
Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human.

Fixation: 4% PFA for 15 min.

Primary Antibody: Mouse Anti-Ataxin 1 Monoclonal Antibody at 1:50 for overnight at 4°C.

Secondary Antibody: AlexaFluor 488 at 1:1000 for 1 hour at RT. Counterstain: Phalloidin-iFluor 647 (red) F-Actin stain; Hoechst (blue) nuclear stain at 1:800, 1.6mM for 20 min at RT.

(A) Hoechst (blue) nuclear stain. (B) Phalloidin-iFluor 647 (red) F-Actin stain. (C) Ataxin 1 Antibody (D) Composite.

**Western Blot**

Western Blot of Mouse Anti-Ataxin 1 Monoclonal Antibody.

Load: 15 µg. Lane 1: Molecular Weight Ladder. Lane 2:

Monkey COS-1 cells transfected with Ataxin- 1.

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: ~85 kDa.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.