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Datasheet for ABIN1741197 anti-Ataxin 1 antibody (AA 164-197)

3 Images



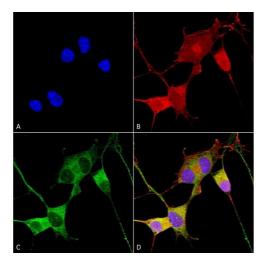
Overview

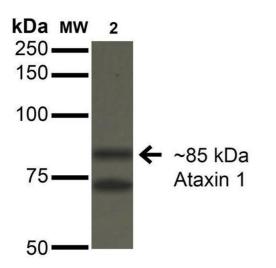
Quantity:	100 µg
Target:	Ataxin 1 (ATXN1)
Binding Specificity:	AA 164-197
Reactivity:	Mouse
Host:	Mouse
Clonality:	Monoclonal
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF),
	Immunoprecipitation (IP), Immunocytochemistry (ICC)
Product Details	
Immunogen:	Synthetic peptide amino acids 164-197 (ATTPSQRSQLEAYSTLLANMGSLSQAPGHKVEPP) of
	mouse Ataxin-1. Rat: 100% identity (34/34 amino acids identical). Human: 88% identity (30/3
	amino acids identical).
Clone:	S76-8
lsotype:	lgG2b
Specificity:	Detects ~85 kDa.
Cross-Reactivity:	Human, Mouse, Rat
Purification:	Protein G Purified
Target Details	
Target:	Ataxin 1 (ATXN1)

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Target Details	
Alternative Name:	Ataxin 1 (ATXN1 Products)
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 Purjinke 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.
Gene ID:	20238
NCBI Accession:	NP_001186233
UniProt:	P54254
Pathways:	Synaptic Membrane
Application Details	
Application Notes:	 WB (1:1000) ICC/IF (1:100) optimal dilutions for assays should be determined by the user.
Comment:	1 μg/ml of ABIN1741197 was sufficient for detection of Ataxin-1 in 20 μg of rat brain lysate by colorimetric immunoblot analysis using Goat anti-mouse IgG:HRP as the secondary antibody.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	1 mg/mL
Buffer:	PBS pH 7.4, 50 % glycerol, 0.1 % sodium azide, Storage buffer may change when conjugated
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	-20°C

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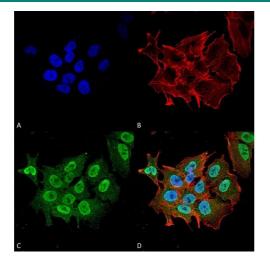
Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Ataxin 1 Monoclonal Antibody, Clone S76-8 (ABIN1741197). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-Ataxin 1 Monoclonal Antibody (ABIN1741197) at 1:100 for overnight at 4 °C with slow rocking. 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, 1.6 mM 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 Blotting

Image 2. 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 S76-8 . 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: ~85 kDa.

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Immunofluorescence (fixed cells)

Image 3. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Ataxin 1 Monoclonal Antibody, Clone S76-8 . 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 1:200 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60 min at RT, 5 min at RT. Localization: Cytoplasm, Nucleus. Magnification: 60X.

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