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anti-Ataxin 1 antibody (AA 746-761) (FITC)

3 Images



Overview

Quantity:	100 μg
Target:	Ataxin 1 (ATXN1)
Binding Specificity:	AA 746-761
Reactivity:	Mouse
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This Ataxin 1 antibody is conjugated to FITC
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)
Product Details	
Immunogen:	Synthetic peptide amino acids 746-761 (RKRRWSAPETRKLEKS) of mouse ataxin-1. Rat: 93%
Immunogen:	Synthetic peptide amino acids 746-761 (RKRRWSAPETRKLEKS) of mouse ataxin-1. Rat: 93% identity (15/16 amino acids identical). Human: 87% identity (14/16 amino acids identical).
Immunogen: Clone:	
	identity (15/16 amino acids identical). Human: 87% identity (14/16 amino acids identical).
Clone:	identity (15/16 amino acids identical). Human: 87% identity (14/16 amino acids identical). S65-37
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Clone:	identity (15/16 amino acids identical). Human: 87% identity (14/16 amino acids identical). S65-37 IgG1 Detects ~85 kDa. No cross-reactivity against phosphor S751-Ataxin-1. Minimal cross-reactivity against S751A mutant of Ataxin-1 by ELISA and immunofluorescence and negative by

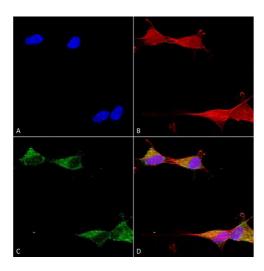
Target Details

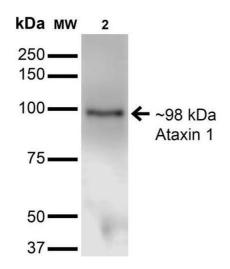
Target:	Ataxin 1 (ATXN1)
Alternative Name:	Ataxin 1 (ATXN1 Products)
Background:	Ataxin-1 is a member of the ATXN1 protein family and contains a single AXH domain. It is a
	neurodegenerative disorder protein thought to have a role in the metabolism of RNA as it has
	been shown to localize to the RNA 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)
	optimal dilutions for assays should be determined by the user.
Comment:	1 μg/ml of ABIN1741533 was sufficient for detection of Ataxin 1 in 20 μg of COS cells
	transiently transfected with Ataxin-1 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:	4°C

Storage Comment:

Conjugated antibodies should be stored at 4°C

Images



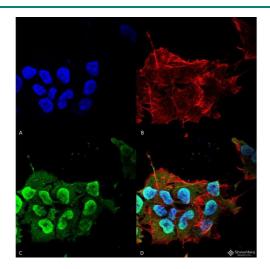


Immunocytochemistry

Image 1. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Ataxin 1 Monoclonal Antibody, Clone S65-37 (ABIN1741533). Tissue: Neuroblastoma cells (SH-SY5Y). Species: Human. Fixation: 4 % PFA for 15 min. Primary Antibody: Mouse Anti-Ataxin 1 Monoclonal Antibody (ABIN1741533) at 1:50 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 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 min for 6 in RT. Predicted/Observed Size: ~85 kDa.



Immunofluorescence (fixed cells)

Image 3. Immunocytochemistry/Immunofluorescence analysis using Mouse Anti-Ataxin 1 Monoclonal Antibody, Clone S65-37. 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.