ATXN7 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	ATXN7, Polyclonal Antibody
Full Product Name	ATXN7, ID (ATXN7, SCA7, Ataxin-7, Spinocerebellar ataxia type 7 protein) (MaxLight 650)
Product Gene Name	anti-ATXN7 antibody
Product Synonym Names	ATXN7; SCA7; Ataxin-7; Spinocerebellar ataxia type 7 protein
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight650.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight650 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	95,451 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (63850233..63989138). Location: 3p21.1-p12
OMIM	164500
3D Structure	ModBase 3D Structure for O15265
Immunogen	ATXN7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 353-381 amino acids from the Central region of human ATXN7.
Conjugate	MaxLight650
Note	Preservative Free
Product Categories/Family for anti-ATXN7 antibody	Antibodies; Ataxin
Applications Tested/Suitable for anti-ATXN7 antibody	Western Blot (WB), FLISA
Application Notes for anti-ATXN7 antibody	WB: 1:100-500 FLISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-ATXN7 antibody	MaxLight650 is a new Far-IR stable dye conjugate comparable to Alexa Fluor647, DyLight649, Cy5 and offers better labeling efficiency, brighter imaging and increased immunodetection. Absorbance (655nm); Emission (676nm); Extinction Coefficient 250,000.
Product References and Citations for anti-ATXN7 antibody	Bonnet, J., et al. EMBO Rep. 11(8):612-618(2010). Han, Y., et al. Neurol India 58(4):622-626(2010). Chou, A.H., et al. Neurochem. Int. 56(2):329-339(2010). Mookerjee, S., et al. J. Neurosci. 29(48):15134-15144(2009). Freund, A.A., et al. Arq Neuropsiquiatr 67(4):1124-1132(2009).

Other Notes	Small volumes of anti-ATXN7 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for ATXN7 purchase	MBS6276829 is an antibody targeting ATXN7. Also known as ATXN7, ID (ATXN7, SCA7, Ataxin-7, Spinocerebellar ataxia type 7 protein) (MaxLight 650). Reactive in Human. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATXN7. It may not necessarily be applicable to this product.

NCBI GI #	4506797
NCBI GeneID	6314
NCBI Accession #	NP_000324.1
NCBI Related Accession #	NP_001170858.1
UniProt Primary Accession #	O15265
UniProt Secondary Accession #	O75328; O75329; Q9Y6P8
UniProt Related Accession #	O15265
GenBank Nucleotide #	NM_000333.3
NCBI Official Full Name	ataxin-7 isoform a
NCBI Official Synonym Full Names	ataxin 7
NCBI Official Symbol	ATXN7
NCBI Official Synonym Symbols	SCA7; OPCA3; ADCAII
UniProt Protein Name	Ataxin-7
UniProt Synonym Protein Names	Spinocerebellar ataxia type 7 protein
Protein Family	Ataxin
UniProt Gene Name	ATXN7
UniProt Synonym Gene Names	SCA7
UniProt Entry Name	ATX7_HUMAN
NCBI Protein Information	ataxin-7; spinocerebellar ataxia type 7 protein

UniProt Comments for ATXN7	ataxin-7: Acts as component of the STAGA transcription coactivator-HAT complex. Mediates the interaction of STAGA complex with the CRX and is involved in CRX-dependent gene activation. Necessary for microtubule cytoskeleton stabilization. Defects in ATXN7 are the cause of spinocerebellar ataxia type 7 (SCA7); also known as olivopontocerebellar atrophy III (OPCA III or OPCA3) or olivopontocerebellar atrophy with retinal degeneration. 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. SCA7 belongs to the autosomal dominant cerebellar ataxias type II (ADCA II) which are characterized by cerebellar ataxia with retinal degeneration and pigmentary macular dystrophy. Belongs to the ataxin-7 family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Nucleolus; Transcription regulation Chromosomal Location of Human Ortholog: 3p21.1-p12 Cellular Component: nucleoplasm; microtubule cytoskeleton; nuclear matrix; cytoplasm; nucleolus; nucleus Molecular Function: protein binding; chromatin binding Biological Process: establishment and/or maintenance of chromatin architecture; visual perception; transcription, DNA-dependent; negative regulation of insulin-like growth factor receptor signaling pathway; negative regulation of phosphorylation; positive regulation of transcription from RNA polymerase II promoter; microtubule cytoskeleton organization and biogenesis; nuclear organization and biogenesis; histone deubiquitination Disease: Spinocerebellar Ataxia 7
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