ATXN7 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	ATXN7, Blocking Peptide
Full Product Name	ATXN7 Blocking Peptide
Product Gene Name	ATXN7 blocking peptide
Product Synonym Names	ADCAII; ATXN 7; OPCA III; OPCA3; SCA 7; SCA7; Spinocerebellar Ataxia 7; Spinocerebellar ataxia type 7 protein
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	ATXN7 peptide (MBS9628254) is used for blocking the activity of ATXN7 antibody (MBS9609550)
Molecular Weight	95,451 Da
Chromosome Location	Chromosome: 3; NC_000003.11 (63850233..63989138). Location: 3p21.1-p12
OMIM	164500
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for ATXN7 blocking peptide	Blocking/Control
Related Product Information for ATXN7 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of ATXN7 blocking peptide 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	MBS9628254 is a blocking peptide targeting ATXN7.

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
UniProt Primary Accession #	O15265
UniProt Secondary Accession #	O75328; O75329; Q9Y6P8; B4E207; E9PHP9

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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