Ataxin 1 (ATXN1) ELISA Kit for Cavy

PRODUCT OVERVIEW

Product Name	Ataxin 1 (ATXN1), ELISA Kit
Full Product Name	Cavy Ataxin 1 ELISA Kit
Product Gene Name	ATXN1 elisa kit
Species Reactivity	Cavy
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	86,923 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (16299343..16761721, complement). Location: 6p23
OMIM	164400
3D Structure	ModBase 3D Structure for P54253
Related Product Information for ATXN1 elisa kit	MBS030860 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Ataxin 1 (ATXN1) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing ATXN1. The ELISA analytical biochemical technique of the MBS030860 kit is based on ATXN1 antibody-ATXN1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect ATXN1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, ATXN1. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).
Other Notes	Small volumes of ATXN1 elisa kit 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for ATXN1. It may not necessarily be applicable to this product.

NCBI GI #	189491748
NCBI GeneID	6310
NCBI Accession #	NP_001121636.1
UniProt Primary Accession #	P54253
UniProt Secondary Accession #	Q17S02; Q9UJG2; Q9Y4J1
UniProt Related Accession #	P54253
GenBank Nucleotide #	NM_001128164.1
NCBI Official Full Name	ataxin-1
NCBI Official Synonym Full Names	ataxin 1
NCBI Official Symbol	ATXN1
NCBI Official Synonym Symbols	ATX1; SCA1; D6S504E
UniProt Protein Name	Ataxin-1

UniProt Synonym Protein Names	Spinocerebellar ataxia type 1 protein
Protein Family	Ataxin
UniProt Gene Name	ATXN1
UniProt Synonym Gene Names	ATX1; SCA1
UniProt Entry Name	ATX1_HUMAN
NCBI Protein Information	ataxin-1; spinocerebellar ataxia type 1 protein
NCBI Summary for ATXN1	The autosomal dominant cerebellar ataxias (ADCA) are a heterogeneous group of neurodegenerative disorders characterized by progressive degeneration of the cerebellum, brain stem and spinal cord. Clinically, ADCA has been divided into three groups: ADCA types I-III. ADCAI is genetically heterogeneous, with five genetic loci, designated spinocerebellar ataxia (SCA) 1, 2, 3, 4 and 6, being assigned to five different chromosomes. ADCAII, which always presents with retinal degeneration (SCA7), and ADCAIII often referred to as the `pure' cerebellar syndrome (SCA5), are most likely homogeneous disorders. Several SCA genes have been cloned and shown to contain CAG repeats in their coding regions. ADCA is caused by the expansion of the CAG repeats, producing an elongated polyglutamine tract in the corresponding protein. The expanded repeats are variable in size and unstable, usually increasing in size when transmitted to successive generations. The function of the ataxins is not known. This locus has been mapped to chromosome 6, and it has been determined that the diseased allele contains 41-81 CAG repeats, compared to 6-39 in the normal allele, and is associated with spinocerebellar ataxia type 1 (SCA1). At least two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jan 2010]
UniProt Comments for ATXN1	ataxin-1: spinocerebellar ataxia type 1 (SCA1) protein. Expansion of CAG repeats in the SCA1 gene results in an abnormally long polyglutamine tract in the protein, causing polyglutamine-induced neurodegeneration. 14-3-3 and Akt kinase stabilize both wild-type and mutant forms of ataxin-1. The expansion of the polyglutamine tract may alter this function. Protein type: Nuclear export; RNA-binding Chromosomal Location of Human Ortholog: 6p23 Cellular Component: nucleoplasm; nuclear RNA export factor complex; nuclear matrix; intracellular membrane-bound organelle; cytoplasm; nucleus; nuclear inclusion body Molecular Function: protein C-terminus binding; identical protein binding; protein binding; protein self-association; DNA binding; poly(U) binding; chromatin binding; poly(rG) binding Biological Process: RNA processing; transcription, DNA-dependent; adult locomotory behavior; negative regulation of insulin-like growth factor receptor signaling pathway; nuclear export; visual learning; negative regulation of phosphorylation; positive regulation of transcription from RNA polymerase II promoter; negative regulation of transcription from RNA polymerase II promoter; regulation of excitatory postsynaptic membrane potential; negative regulation of transcription, DNA-dependent; alveolus development Disease: Spinocerebellar Ataxia 1
Research Articles on ATXN1	**1.** Patients carrying JARID2 deletion manifested with cognitive impairment, gait disturbance and a characteristic facial appearance, whereas patients with deletion of ATXN1 seemed to be characterized by intellectual disability and behavioural abnormalities
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