Apaxin (APTX) ELISA Kit for Sheep

PRODUCT OVERVIEW

Product Name	Apaxin (APTX), ELISA Kit
Full Product Name	Sheep Apaxin (APTX) ELISA Kit
Product Gene Name	APTX elisa kit
Species Reactivity	Sheep
Samples	Serum, plasma, Cell Culture Supernatants, body fluid and tissue homogenate
Preparation and Storage	Store all reagents at 2-8 degree C.
Molecular Weight	21,389 Da
OMIM	606350
Sample Preparation	We suggest pre-experimenting with neat (undiluted) samples, 1:2 or 1:4 dilutions. Please avoid diluting your samples more than 1:10 as it would exceed the dilution limit set for this kit. If the expected concentration of the target is beyond the detection range of the kit, please contact our technical support team
Product Categories/Family for APTX elisa kit	Epigenetics and Nuclear Signaling
ISO Certification	Manufactured in an ISO 13485:2016 Certified Laboratory.
Related Product Information for APTX elisa kit	MBS7217054 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Apaxin (APTX) 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 APTX. The ELISA analytical biochemical technique of the MBS7217054 kit is based on APTX antibody-APTX antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect APTX antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, APTX. 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 APTX 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 APTX. It may not necessarily be applicable to this product.

NCBI GI #	305410837
NCBI GeneID	54840
NCBI Accession #	NP_001182181.1
UniProt Secondary Accession #	Q0P662; Q5T781; Q5T782; Q5T784; Q6JV81; Q6JV82; Q6JV85; Q7Z2F3; A8MTN4; D3DRK9; D3DRL0
UniProt Related Accession #	Q7Z2E3
GenBank Nucleotide #	NM_001195252.1
NCBI Official Full Name	aprataxin isoform i
NCBI Official Synonym Full Names	aprataxin
NCBI Official Symbol	APTX

NCBI Official Synonym Symbols	AOA; AOA1; AXA1; EAOH; EOAHA; FHA-HIT
UniProt Protein Name	Aprataxin
UniProt Synonym Protein Names	Forkhead-associated domain histidine triad-like protein; FHA-HIT
Protein Family	Aprataxin
UniProt Gene Name	APTX
UniProt Synonym Gene Names	AXA1; FHA-HIT
UniProt Entry Name	APTX_HUMAN
NCBI Protein Information	aprataxin; forkhead-associated domain histidine triad-like protein
NCBI Summary for APTX	This gene encodes a member of the histidine triad (HIT) superfamily. The encoded protein may play a role in single-stranded DNA repair through its nucleotide-binding activity and its diadenosine polyphosphate hydrolase activity. Mutations in this gene have been associated with ataxia-ocular apraxia. Alternatively spliced transcript variants have been identified for this gene.[provided by RefSeq, Aug 2010]
UniProt Comments for APTX	APTX: DNA-binding protein involved in single-strand DNA break repair, double-strand DNA break repair and base excision repair. Resolves abortive DNA ligation intermediates formed either at base excision sites, or when DNA ligases attempt to repair non- ligatable breaks induced by reactive oxygen species. Catalyzes the release of adenylate groups covalently linked to 5'-phosphate termini, resulting in the production of 5'-phosphate termini that can be efficiently rejoined. Also able to hydrolyze adenosine 5'- monophosphoramidate (AMP-NH(2)) and diadenosine tetraphosphate (AppppA), but with lower catalytic activity. Defects in APTX are the cause of ataxia-oculomotor apraxia syndrome (AOA). AOA is an autosomal recessive syndrome characterized by early-onset cerebellar ataxia, oculomotor apraxia, early areflexia and late peripheral neuropathy. 13 isoforms of the human protein are produced by alternative splicing. Protein type: EC 3.-.-.-; RNA-binding; Phosphatase (non-protein); Nucleolus; DNA repair, damage; C2H2-type zinc finger protein Chromosomal Location of Human Ortholog: 9p13.3 Cellular Component: nucleoplasm; cytoplasm; nuclear chromatin; nucleolus; nucleus; chromatin Molecular Function: protein binding; DNA 5'-adenosine monophosphate hydrolase activity; phosphoglycolate phosphatase activity; polynucleotide 3'-phosphatase activity; metal ion binding; double-stranded RNA binding; double-stranded DNA binding; damaged DNA binding; protein N-terminus binding; phosphoprotein binding; chromatin binding Biological Process: single strand break repair; dephosphorylation; response to hydrogen peroxide; double-strand break repair; regulation of protein stability; DNA catabolic process, exonucleolytic; response to DNA damage stimulus; DNA ligation Disease: Ataxia, Early-onset, With Oculomotor Apraxia And Hypoalbuminemia
Research Articles on APTX	**1.** Structure-function studies of human APTX-RNA-DNA-AMP-Zn complexes define a mechanism for detecting and reversing adenylation at RNA-DNA junctions
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
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Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

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