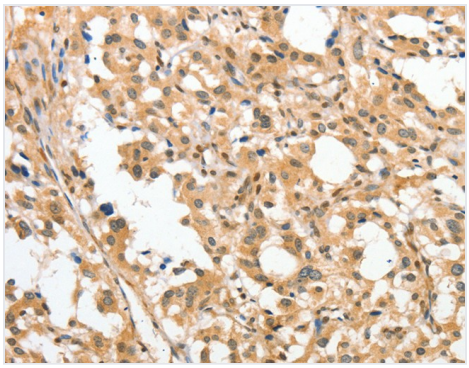
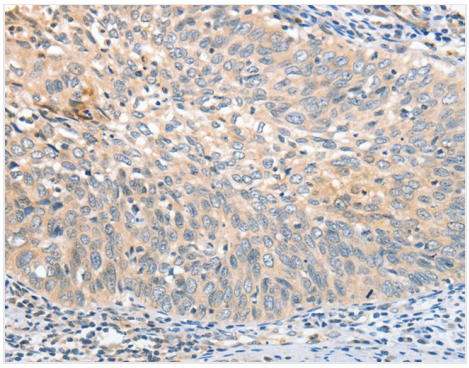
APTX Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	APTX, Polyclonal Antibody
Full Product Name	APTX Polyclonal Antibody
Product Gene Name	anti-APTX antibody
Product Synonym Names	AOA; AOA1; AXA1; EAOH; EOAHA; FHA-HIT
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Antigen affinity purification
Concentration	2.3mg/mL (lot specific)
Preparation and Storage	Store at -20 degree C (regular) and -80 degree C (long term). Avoid freeze / thaw cycles.
Molecular Weight	21,389 Da
OMIM	208920
Immunogen	Recombinant protein of human APTX
Buffer	PBS with 0.05% sodium azide, 50% glycerol, pH7.3
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-APTX antibody	ELISA (EIA), Immunohistochemistry (IHC)
Application Notes for anti-APTX antibody	IHC: 1:50-1:200
Related Product Information for anti-APTX antibody	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.
Other Notes	Small volumes of anti-APTX 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 APTX purchase	MBS2520304 is an antibody targeting APTX. Also known as APTX Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.



Immunohistochemistry (IHC) of anti-APTX antibody
Immunohistochemistry of paraffin-embedded Human thyroid cancer tissue using APTX Polyclonal Antibody at dilution 1:50



Immunohistochemistry (IHC) of anti-APTX antibody
Immunohistochemistry of paraffin-embedded Human cervical cancer tissue using APTX Polyclonal Antibody at dilution 1:50

ADDITIONAL DETAILS

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

NCBI GI #	307746921
NCBI GeneID	54840
NCBI Accession #	NP_001182183.1
UniProt Secondary Accession #	Q0P662; Q5T781; Q5T782; Q5T784; Q6JV81; Q6JV82; Q6JV85; Q7Z2F3; A8MTN4; D3DRK9; D3DRL0
UniProt Related Accession #	Q7Z2E3
GenBank Nucleotide #	NM_001195254.1
NCBI Official Full Name	aprataxin isoform h
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

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: C2H2-type zinc finger protein; Phosphatase (non-protein); Nucleolus; RNA-binding; EC 3.-.-.-; DNA repair, damage 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.** TDP1 and APTX take part in the mitochondrial DNA repair and are apparently being transported from the cell nucleus. (Review)
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