abcam

Product datasheet

Recombinant Human MTPAP protein ab162984

1 Image

Description

Product name	Recombinant Human MTPAP protein
Expression system	Wheat germ
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Human
Sequence	MAVPGVGLLTRLNLCARRRTRVQRPIVRLLSCPGTVAKDL RRDEQPSGSV ETGFEDKIPKRRFSEMQNERREQAQRTVLIHCPEKISENK FLKYLSQFGP INNHFFYESFGLYAVVEFCQKESIGSLQNGTHTPSTAMETA IPFRSRFFN LKLKNQTSERSRVRSSNQLPRSNKQLFELLCYAESIDDQL NTLLKEFQLT EENTKLRYLTCSLIEDMAAAHFPDCIVRPFGSSVNTFGKLG CDLDMFLDL DETRNLSAHKISGNFLMEFQVKNVPSERIATQKILSVLGEC LDHFGPGCV GVQKILNARCPLVRFSHQASGFQCDLTTNNRIALTSSELLYI YGALDSRV RALVFSVRCWARAHSLTSSIPGAWITNFSLTMMVIFFLQRR SPPILPTLD SLKTLADAEDKCVIEGNNRTFVRDLSRIKPSQNTETLELLL KEFFEYFGN FAFDKNSINIRQGREQNKPDSSPLYIQNPFETSLNISKNVS QSQLQKFVD LARESAWILQQEDTDRPSISSNRPWGLVSLLLPSAPNRKS FTKKKNNKFA IETVKNLLESLKGNRTENFTKTSGKRTISTQT
Amino acids	1 to 582
Tags	GST tag N-Terminus

Specifications

Our Abpromise guarantee covers the use of **ab162984** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	ELISA Western blot
Form	Liquid
Additional notes	This product was previously labelled as Poly(A) RNA polymerase.

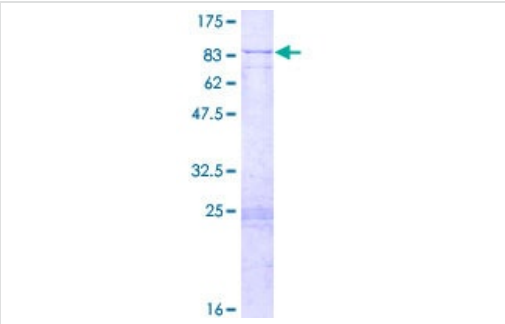
Preparation and Storage

Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80ºC. Avoid freeze / thaw cycles. pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl

General Info

Function	Polymerase that creates the 3' poly(A) tail of mitochondrial transcripts. Can use all four nucleotides, but has higher activity with ATP and UTP (in vitro). Plays a role in replication-dependent histone mRNA degradation. May be involved in the terminal uridylation of mature histone mRNAs before their degradation is initiated. Might be responsible for the creation of some UAA stop codons which are not encoded in mtDNA.
Tissue specificity	Ubiquitous, with stronger expression in tissues with high energy requirements: heart, brain, and skeletal muscle.
Involvement in disease	Defects in MTPAP are the cause of spastic ataxia autosomal recessive type 4 (SPAX4) [MIM:613672]. A slowly progressive neurodegenerative disease characterized by cerebellar ataxia, spastic paraparesis, dysarthria, and optic atrophy. Note=Affected individuals exhibit a drastic decrease in poly(A) tail length of representative mitochondrial mRNA transcripts, including COX1 and RNA14 (PubMed:20970105).
Sequence similarities	Belongs to the DNA polymerase type-B-like family. Contains 1 PAP-associated domain.
Cellular localization	Cytoplasm. Mitochondrion.

Images



SDS-PAGE - Recombinant Human MTPAP protein (ab162984)

ab162984 on a 12.5% SDS-PAGE stained with Coomassie Blue.

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