


Product datasheet

Anti-MTPAP antibody ab156684

2 Images

Overview

Product name	Anti-MTPAP antibody
Description	Rabbit polyclonal to MTPAP
Host species	Rabbit
Tested applications	Suitable for: WB, IP
Species reactivity	Reacts with: Human Predicted to work with: Chimpanzee, Gorilla, Orangutan 
Immunogen	Synthetic peptide corresponding to Human MTPAP aa 532-582. Database link: NP_060579.3
Positive control	HeLa, 293T and Jurkat whole cell lysates.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C.
Storage buffer	pH: 7 Preservative: 0.09% Sodium azide Constituent: 99% Tris citrate/phosphate
Purity	pH 7 to 8 Immunogen affinity purified
Purification notes	ab156684 was affinity purified using an epitope specific to MTPAP, mitochondrial immobilized on solid support.
Clonality	Polyclonal

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab156684 in the following tested applications.

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

Application	Abreviews	Notes
WB		1/2000 - 1/10000. Predicted molecular weight: 66 kDa.
IP		Use at 2-10 µg/mg of lysate.

Target

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).

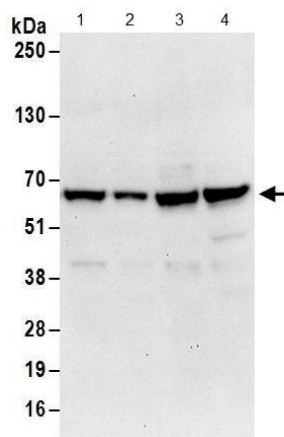
Sequence similarities

Belongs to the DNA polymerase type-B-like family.
Contains 1 PAP-associated domain.

Cellular localization

Cytoplasm. Mitochondrion.

Images



Western blot - Anti-MTPAP antibody (ab156684)

All lanes : Anti-MTPAP antibody (ab156684) at 0.1 µg/ml

Lane 1 : HeLa whole cell lysate at 50 µg

Lane 2 : HeLa whole cell lysate at 15 µg

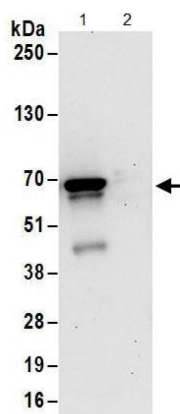
Lane 3 : 293T whole cell lysate at 50 µg

Lane 4 : Jurkat whole cell lysate at 50 µg

Developed using the ECL technique.

Predicted band size: 66 kDa

Exposure time: 30 seconds



Immunoprecipitation - Anti-MTPAP antibody
(ab156684)

Detection of MTPAP, mitochondrial by Western blot of
Immunoprecipitate:

Immunoprecipitation of HeLa whole cell lysate using ab156684 at 6 µg/mg lysate (1 mg/IP; 20% of IP loaded/lane) followed by detection of MTPAP, mitochondrial with ab156684 at 1 µg/ml. The lysate in lane 2 is precipitated with an IgG control antibody.

Detection: Chemiluminescence with exposure time of 30 seconds.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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