


Product datasheet

Anti-TFB1M antibody ab236901

[1 References](#) [4 Images](#)

Overview

Product name	Anti-TFB1M antibody
Description	Rabbit polyclonal to TFB1M
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Cynomolgus monkey, Orangutan 
Immunogen	Recombinant fragment corresponding to Human TFB1M aa 50-200. Database link: Q8WVM0 Run BLAST with Run BLAST with
Positive control	WB: A549 whole cell lysate. IHC-P: Human pancreatic cancer and liver cancer tissues. ICC/IF: HepG2 cells.
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 short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol (glycerin, glycerine), PBS
Purity	Protein G purified
Purification notes	Purity >95%.
Clonality	Polyclonal

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab236901 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		1/500 - 1/5000. Predicted molecular weight: 39 kDa.
IHC-P		1/500 - 1/1000.
ICC/IF		1/50 - 1/200.

Target

Function

S-adenosyl-L-methionine-dependent methyltransferase which specifically dimethylates mitochondrial 12S rRNA at the conserved stem loop. Also required for basal transcription of mitochondrial DNA, probably via its interaction with POLRMT and TFAM. Stimulates transcription independently of the methyltransferase activity.

Tissue specificity

Ubiquitously expressed.

Involvement in disease

Note=Variations in TFB1M may influence the clinical expression of aminoglycoside-induced deafness caused by the A1555G mutation in the mitochondrial 12S rRNA.

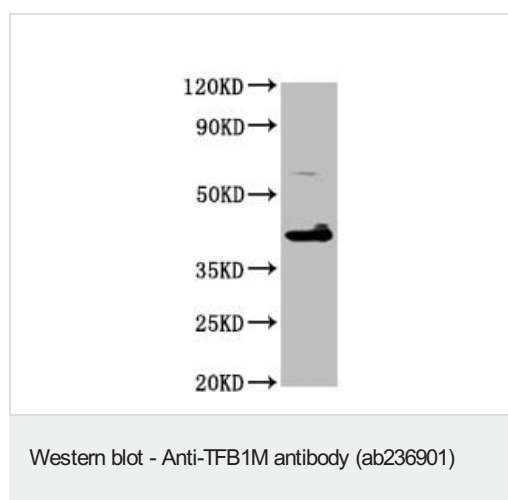
Sequence similarities

Belongs to the methyltransferase superfamily. rRNA adenine N(6)-methyltransferase family. KsgA subfamily.

Cellular localization

Mitochondrion.

Images

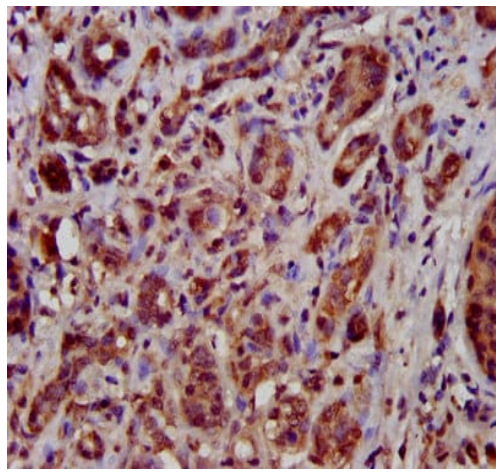


Anti-TFB1M antibody (ab236901) at 1/500 dilution + A549 (Human lung carcinoma cell line) whole cell lysate

Secondary

Goat polyclonal to rabbit IgG at 1/50000 dilution

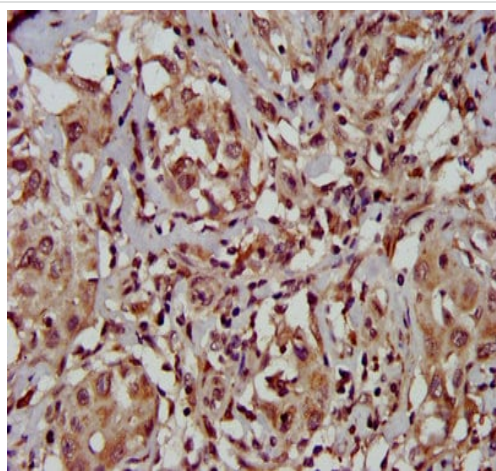
Predicted band size: 39 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TFB1M antibody (ab236901)

Paraffin-embedded human pancreatic cancer tissue stained for TFB1M using ab236901 at 1/500 dilution in immunohistochemical analysis.

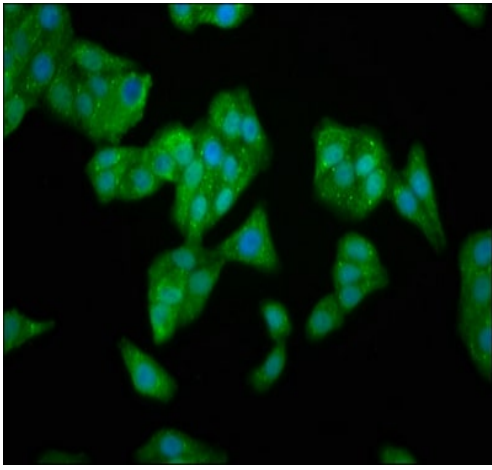
After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30 minutes at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-TFB1M antibody (ab236901)

Paraffin-embedded human liver cancer tissue stained for TFB1M using ab236901 at 1/500 dilution in immunohistochemical analysis.

After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30 minutes at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Immunocytochemistry/ Immunofluorescence - Anti-TFB1M antibody (ab236901)

HepG2 (Human liver hepatocellular carcinoma cell line) cells stained for TFB1M (green) using ab236901 at 1/166 dilution in ICC/IF, followed by an Alexa-Fluor[®]488 conjugated Goat Anti-Rabbit IgG (H+L). Counter-stained with DAPI. The cells were fixed in 4% formaldehyde, permeabilized using 0.2% Triton X-100 and blocked in 10% normal goat serum. The cells were then incubated with the primary antibody overnight at 4°C.

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