

TFB2M Antibody (internal region)
Peptide-affinity purified goat antibody
Catalog # AF3546a

Specification

TFB2M Antibody (internal region) - Product Information

Application	WB
Primary Accession	O9H5Q4
Other Accession	NP_071761.1 , 64216
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	45349

TFB2M Antibody (internal region) - Additional Information

Gene ID [64216](#)

Other Names

Dimethyladenosine transferase 2, mitochondrial, 2.1.1.-, Hepatitis C virus NS5A-transactivated protein 5, HCV NS5A-transactivated protein 5, Mitochondrial 12S rRNA dimethylase 2, Mitochondrial transcription factor B2, h-mtTFB, h-mtTFB2, hTFB2M, mtTFB2, S-adenosylmethionine-6-N', N'-adenosyl(rRNA) dimethyltransferase 2, TFB2M, NS5ATP5

Format

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

TFB2M Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

TFB2M Antibody (internal region) - Protein Information

Name TFB2M ([HGNC:18559](#))

Synonyms NS5ATP5

Function

S-adenosyl-L-methionine-dependent rRNA methyltransferase which may methylate two specific adjacent adenosines in the loop of a conserved hairpin near the 3'-end of 12S mitochondrial rRNA (Probable). Component of the mitochondrial transcription initiation complex, composed at least of

TFB2M, TFAM and POLRMT that is required for basal transcription of mitochondrial DNA (PubMed: [12068295](http://www.uniprot.org/citations/12068295)), PubMed: [15526033](http://www.uniprot.org/citations/15526033), PubMed: [20410300](http://www.uniprot.org/citations/20410300), PubMed: [29149603](http://www.uniprot.org/citations/29149603)). In this complex, TFAM recruits POLRMT to a specific promoter whereas TFB2M induces structural changes in POLRMT to enable promoter opening and trapping of the DNA non- template strand (PubMed: [15526033](http://www.uniprot.org/citations/15526033), PubMed: [29149603](http://www.uniprot.org/citations/29149603)). Stimulates transcription independently of the methyltransferase activity (PubMed: [12897151](http://www.uniprot.org/citations/12897151)).

Cellular Location

Mitochondrion.

Tissue Location

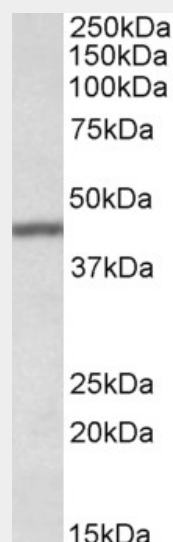
Ubiquitously expressed.

TFB2M Antibody (internal region) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

TFB2M Antibody (internal region) - Images



AF3546a (0.1 µg/ml) staining of Human Lung lysate (35 µg protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

TFB2M Antibody (internal region) - References

Human mitochondrial transcription revisited: only TFAM and TFB2M are required for transcription of the mitochondrial genes in vitro. Litonin D, Sologub M, Shi Y, Savkina M, Anikin M, Falkenberg M, Gustafsson CM, Temiakov D. J Biol Chem. 2010 Jun 11;285(24):18129-33. PMID: 20410300