

TFB2M Antibody (C-Terminus)
Goat Polyclonal Antibody
Catalog # ALS16275**Specification**

TFB2M Antibody (C-Terminus) - Product Information

Application	IHC
Primary Accession	O9H5Q4
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Calculated MW	45kDa KDa

TFB2M Antibody (C-Terminus) - 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

Target/Specificity

Human TFB2M.

Reconstitution & Storage

Store at -20°C. Minimize freezing and thawing.

Precautions

TFB2M Antibody (C-Terminus) is for research use only and not for use in diagnostic or therapeutic procedures.

TFB2M Antibody (C-Terminus) - 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: [29149603](http://www.uniprot.org/citations/29149603), PubMed: [12068295](http://www.uniprot.org/citations/12068295), PubMed: [20410300](http://www.uniprot.org/citations/20410300), PubMed: [15526033](http://www.uniprot.org/citations/15526033)).

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:29149603, PubMed:15526033). Stimulates transcription independently of the methyltransferase activity (PubMed:12897151).

Cellular Location

Mitochondrion.

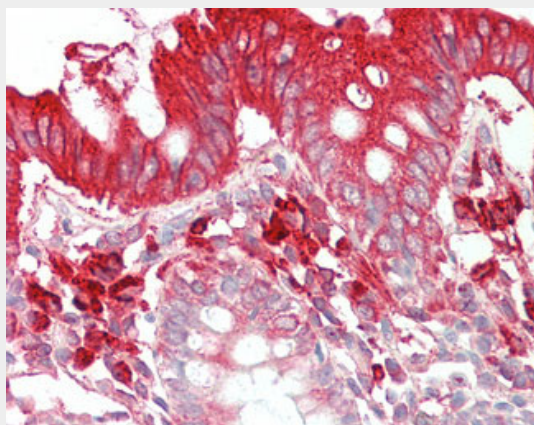
Tissue Location

Ubiquitously expressed.

TFB2M Antibody (C-Terminus) - 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 (C-Terminus) - Images

Anti-TFB2M antibody IHC staining of human colon.

TFB2M Antibody (C-Terminus) - Background

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. Compared to TFB1M, it activates transcription of mitochondrial DNA more efficiently, while it has less methyltransferase activity.

TFB2M Antibody (C-Terminus) - References

Liu Y.,et al.Submitted (JUL-2002) to the EMBL/GenBank/DDBJ databases.

Ota T.,et al.Nat. Genet. 36:40-45(2004).
Gregory S.G.,et al.Nature 441:315-321(2006).
Falkenberg M.,et al.Nat. Genet. 31:289-294(2002).
McCulloch V.,et al.Mol. Cell. Biol. 23:5816-5824(2003).