

# TFB2M Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP10145b

## Product Information

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<b>Application</b>	WB, IHC-P, E
<b>Primary Accession</b>	<a href="#">Q9H5Q4</a>
<b>Other Accession</b>	<a href="#">NP_071761.1</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB22408
<b>Calculated MW</b>	45349
<b>Antigen Region</b>	368-396

## Additional Information

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<b>Gene ID</b>	64216
<b>Other Names</b>	Dimethyladenosine transferase 2, mitochondrial, 211-, 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
<b>Target/Specificity</b>	This TFB2M antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 368-396 amino acids from the C-terminal region of human TFB2M.
<b>Dilution</b>	WB~~1:1000 IHC-P~~1:100~500 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	TFB2M Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	TFB2M ( <a href="#">HGNC:18559</a> )
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## 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](#), PubMed:[15526033](#), PubMed:[20410300](#), PubMed:[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](#), PubMed:[29149603](#)). Stimulates transcription independently of the methyltransferase activity (PubMed:[12897151](#)).

## Cellular Location

Mitochondrion.

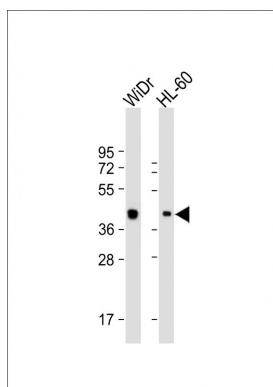
## Tissue Location

Ubiquitously expressed.

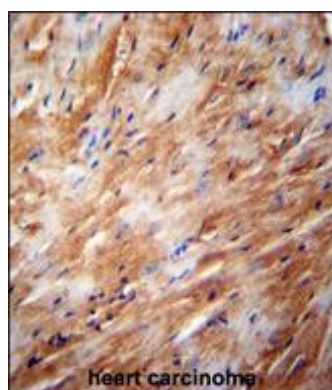
## References

Litonin, D., et al. J. Biol. Chem. 285(24):18129-18133(2010)  
Norrbon, J., et al. Acta Physiol (Oxf) 198(1):71-79(2010)  
Fukuoh, A., et al. Genes Cells 14(8):1029-1042(2009)  
Cotney, J., et al. Hum. Mol. Genet. 18(14):2670-2682(2009)  
Alonso-Montes, C., et al. Dis. Markers 25(3):131-139(2008)

## Images



All lanes : Anti-TFB2M Antibody (C-term) at 1:2000 dilution Lane 1: WiDr whole cell lysate Lane 2: HL-60 whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 45 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



TFB2M Antibody (C-term) (Cat. #AP10145b) immunohistochemistry analysis in formalin fixed and paraffin embedded human heart carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the TFB2M Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

## Citations

- [Mitochondrial transcription factor B2 overexpression increases M2 macrophage infiltration via cytosolic mitochondrial DNA-stimulated Interleukin-6 secretion in ovarian cancer](#)
- [Suppression of mitochondrial transcription initiation complexes changes the balance of replication intermediates of mitochondrial DNA and reduces 7S DNA in cultured human cells.](#)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.