

For Research Use Only

# TFAM Recombinant antibody, PBS Only

Catalog Number: 82745-1-PBS



## Basic Information

<b>Catalog Number:</b> 82745-1-PBS	<b>GenBank Accession Number:</b> BC126366	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ug, Concentration: 1 mg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 7019	<b>CloneNo.:</b> 4L4
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q00059	
<b>Isotype:</b> IgG	<b>Full Name:</b> transcription factor A, mitochondrial	
<b>Immunogen Catalog Number:</b> AG18299	<b>Calculated MW:</b> 246 aa, 29 kDa	
	<b>Observed MW:</b> 24-25 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, Indirect ELISA

**Species Specificity:**  
human

## Background Information

TFAM, also named as TCF6L2, MtTF1, TCF6, TCF6L1, TCF6L3 and mtTFA, is a mitochondrial transcription factor that is a key activator of mitochondrial transcription as well as a participant in mitochondrial genome replication. It is involved in mitochondrial transcription regulation. TFAM is required for accurate and efficient promoter recognition by the mitochondrial RNA polymerase. It activates transcription by binding immediately upstream of transcriptional start sites. TFAM is able to unwind and bend DNA.

## Storage

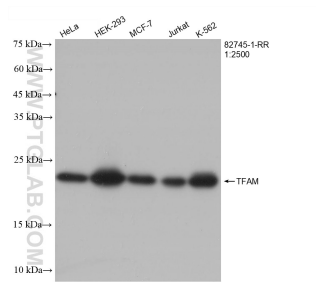
**Storage:**  
Store at -80°C.

**Storage Buffer:**  
PBS Only

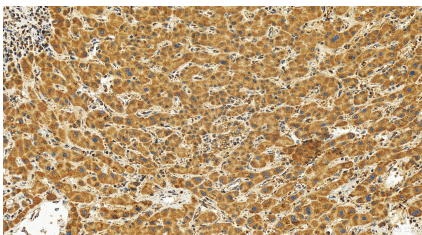
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

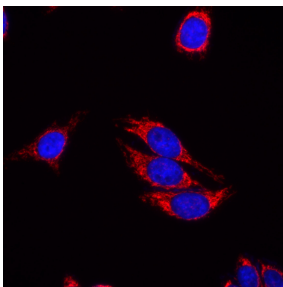
Selected Validation Data



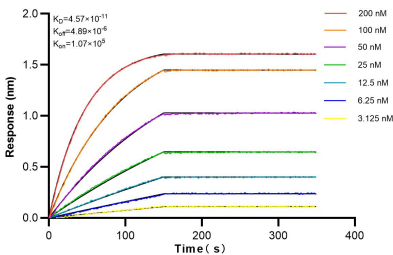
Various lysates were subjected to SDS PAGE followed by western blot with 82745-1-RR (TFAM antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 82745-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded human intrahepatic cholangiocarcinoma tissue slide using 82745-1-RR (TFAM antibody) at dilution of 1:200 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 82745-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using TFAM antibody (82745-1-RR, Clone: 4L4 ) at dilution of 1:250 and Multi-rAb CoraLite ® Plus 594-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR004). This data was developed using the same antibody clone with 82745-1-PBS in a different storage buffer formulation.



Biolayer interferometry (BLI) kinetic assays of 82745-1-RR against Human TFAM were performed. The affinity constant is 45.7 pM.