

For Research Use Only

TFAM Recombinant antibody

Catalog Number: 82745-1-RR



Basic Information

Catalog Number: 82745-1-RR	GenBank Accession Number: BC126366	Purification Method: Protein A purification
Size: 250 ug/ml	GeneID (NCBI): 7019	CloneNo.: 4L4
Source: Rabbit	UNIPROT ID: Q00059	Recommended Dilutions: WB 1:1000-1:5000 IHC 1:50-1:500 IF/ICC 1:125-1:500
Isotype: IgG	Full Name: transcription factor A, mitochondrial	
Immunogen Catalog Number: AG18299	Calculated MW: 246 aa, 29 kDa Observed MW: 24-25 kDa	

Applications

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

Species Specificity:
human

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HeLa cells, HEK-293 cells, MCF-7 cells, Jurkat cells, K-562 cells

IHC : human intrahepatic cholangiocarcinoma tissue,

IF/ICC : HepG2 cells,

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 -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

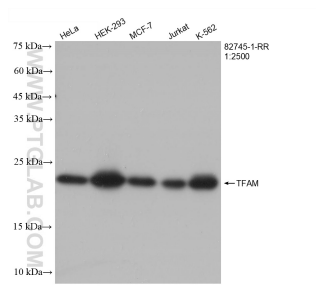
T: 4006900926

E: Proteintech-CN@ptglab.com

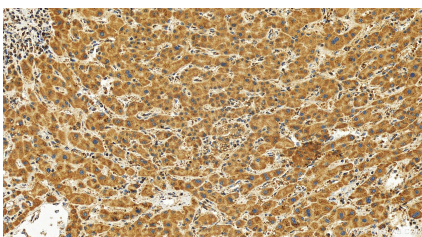
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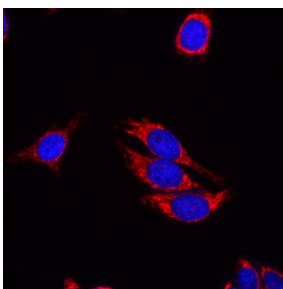
Selected Validation Data



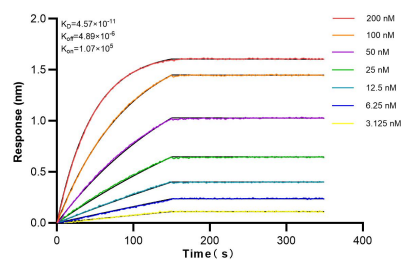
Various lysates were subjected to SDS PAGE followed by western blot with 82745-1-RR (TFAM antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



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).



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).



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