

For Research Use Only

TFAM Monoclonal antibody

Catalog Number: 68557-5-Ig



Basic Information

Catalog Number:	68557-5-Ig	GenBank Accession Number:	BC126366	Purification Method:	Protein G purification
Size:	150ul, Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI):	7019	CloneNo.:	1C8H3
Source:	Mouse	UNIPROT ID:	Q00059	Recommended Dilutions:	WB 1:5000-1:50000 IHC 1:2000-1:8000 IF/ICC 1:250-1:1000
Isotype:	IgG1	Full Name:	transcription factor A, mitochondrial		
Immunogen Catalog Number:	AG18253	Calculated MW:	246 aa, 29 kDa		
		Observed MW:	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 : Jurkat cells, Caco-2 cells, U2OS cells, LNCaP cells, MOLT-4 cells, MJ cells, K-562 cells

IHC : human colon cancer 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, pH7.3

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

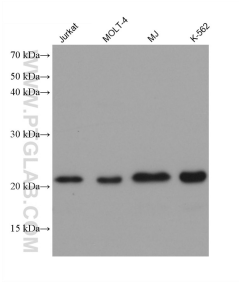
For technical support and original validation data for this product please contact:

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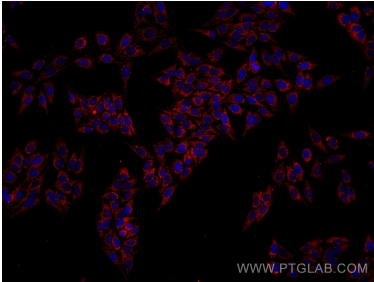
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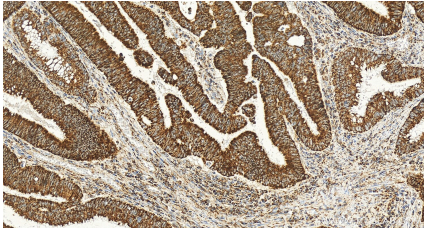
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 68557-5-Ig (TFAM antibody) at dilution of 1:40000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using TFAM antibody (68557-5-Ig, Clone: 1C8H3) at dilution of 1:500 and Multi-rAb CoraLite® Plus 594-Goat Anti-Mouse Recombinant Secondary Antibody (H+L) (Cat.NO. RGAM004).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 68557-5-Ig (TFAM antibody) at dilution of 1:4000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).