

## mtTFA Rabbit mAb

Catalog No: #52029

Package Size: #52029-1 50ul #52029-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

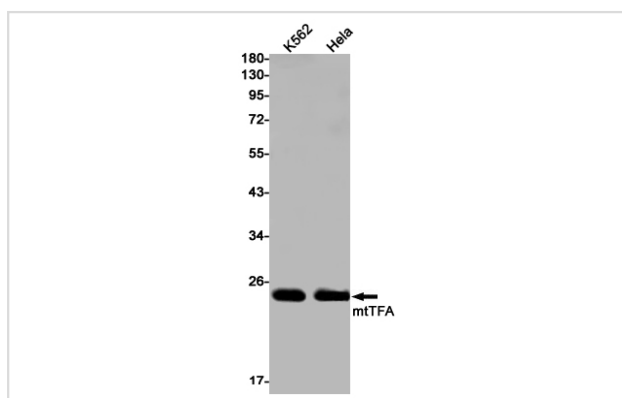
## Description

Product Name	mtTFA Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	S08-3E2
Isotype	Rabbit IgG
Purification	Affinity Purified
Applications	WB IHC IF
Species Reactivity	Human
Immunogen Description	A synthetic peptide of human mtTFA
Conjugates	Unconjugated
Modification	Unmodification
Other Names	MtTF1; mtTFA; TCF6; TCF6L1; TCF6L2; TCF6L3; TFAM; Transcription factor 6;
Accession No.	Swiss-Prot:Q00059GeneID:7019
Uniprot	Q00059
GeneID	7019
Calculated MW	Calculated MW: 29 kDa; Observed MW: 24 kDa
Concentration	0.3 mg/ml
Formulation	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

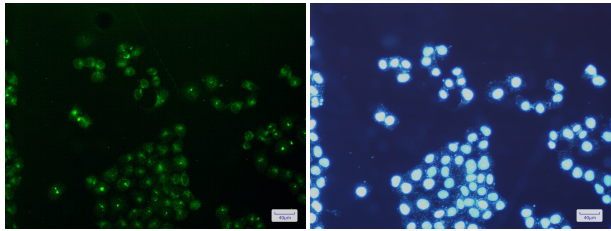
## Application Details

WB: 1/2000-1/10000; IHC: 1/50; ICC/IF: 1/20-1/50;

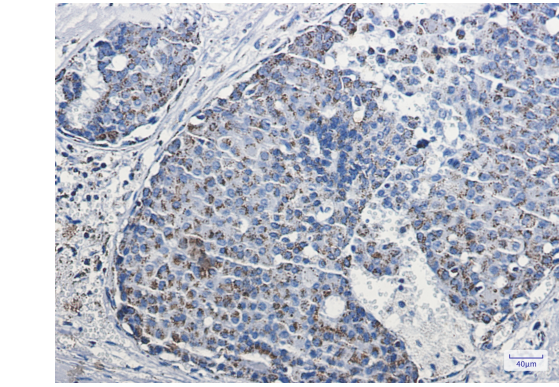
## Images



Western blot detection of mtTFA in K562, HeLa cell lysates using mtTFA Rabbit mAb (1:1000 diluted). Predicted band size: 29 kDa. Observed band size: 24 kDa.



Immunofluorescence of mtTFA/TFAM(green) in Hela cells using mtTFA/TFAM Rabbit mAb at dilution 1/200, and DAPI(blue)



Immunohistochemistry of mtTFA in paraffin-embedded Human breast cancer tissue using mtTFA Rabbit mAb at dilution 1/1

## Background

Swiss-Prot Acc.Q00059.Binds to the mitochondrial light strand promoter and functions in mitochondrial transcription regulation (PubMed:29445193, PubMed:32183942).

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).

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:20410300).

Required for accurate and efficient promoter recognition by the mitochondrial RNA polymerase (PubMed:22037172).

Promotes transcription initiation from the HSP1 and the light strand promoter by binding immediately upstream of transcriptional start sites (PubMed:22037172).

Is able to unwind DNA (PubMed:22037172).

Note: This product is for in vitro research use only