



# mtTFA Polyclonal Antibody

|                                    |                                                                                                                                                                                                                                                                                                                                                                                |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>                  | YP-Ab-01883                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Isotype</b>                     | IgG                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Reactivity</b>                  | Human;Rat;Mouse;;Bovine                                                                                                                                                                                                                                                                                                                                                        |
| <b>Applications</b>                | WB;IHC;IF;ELISA                                                                                                                                                                                                                                                                                                                                                                |
| <b>Gene Name</b>                   | TFAM                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Immunogen</b>                   | The antiserum was produced against synthesized peptide derived from human TFAM. AA range:131-180                                                                                                                                                                                                                                                                               |
| <b>Specificity</b>                 | mtTFA Polyclonal Antibody detects endogenous levels of mtTFA protein.                                                                                                                                                                                                                                                                                                          |
| <b>Formulation</b>                 | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>                      | Polyclonal, Rabbit,IgG                                                                                                                                                                                                                                                                                                                                                         |
| <b>Purification</b>                | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                          |
| <b>Dilution</b>                    | WB 1:500-2000;Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/20000. Not yet tested in other applications.                                                                                                                                                                                                                                   |
| <b>Concentration</b>               | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Purity</b>                      | ≥90%                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage Stability</b>           | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Synonyms</b>                    | MtTF1;mtTFA;TCF6;TCF-6;Transcription factor 6-like 2;TFAM;Transcription factor A mitochondrial;TCF6L2;Transcription factor A;mitochondrial; Mitochondrial transcription factor 1;Transcription factor 6                                                                                                                                                                        |
| <b>Observed Band</b>               | 22kd                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Calculated Molecular Weight</b> | 22kd                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Cell Pathway</b>                | Mitochondrion . Mitochondrion matrix, mitochondrion nucleoid .                                                                                                                                                                                                                                                                                                                 |
| <b>Tissue Specificity</b>          | Lymphocyte,Pooled,Uterus,                                                                                                                                                                                                                                                                                                                                                      |
| <b>Function</b>                    | function:Involved in mitochondrial transcription regulation. Required for accurate and efficient promoter recognition by the mitochondrial RNA polymerase. Activates transcription by binding immediately upstream of transcriptional start sites. Is able to unwind and bend DNA.,similarity:Contains 2 HMG box DNA-binding domains.,subunit:Interacts with TFB1M and TFB2M., |
| <b>Background</b>                  | This gene encodes a key mitochondrial transcription factor containing two high mobility group motifs. The encoded protein also functions in mitochondrial DNA replication and repair. Sequence polymorphisms in this gene are associated with                                                                                                                                  |



Alzheimer's and Parkinson's diseases. There are pseudogenes for this gene on chromosomes 6, 7, and 11. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Aug 2012],

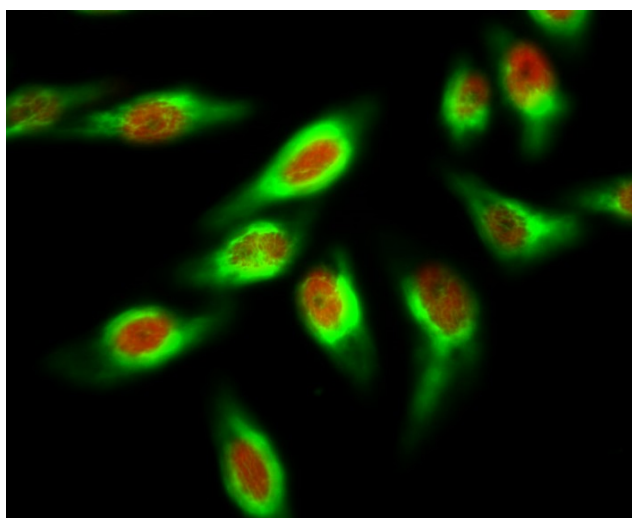
**matters needing attention**

Avoid repeated freezing and thawing!

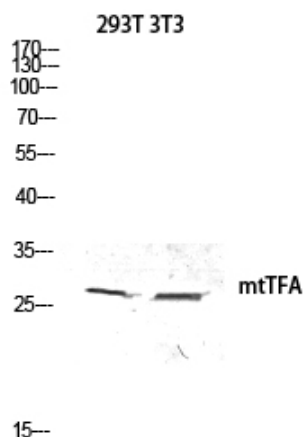
**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

**Products Images**

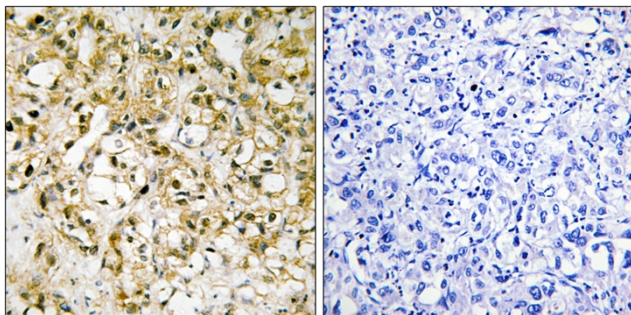


Immunofluorescence analysis of HeLa cell. 1, mtTFA Polyclonal Antibody (Green) was diluted at 1:200 (4° overnight). Histone H3 (Tri Methyl Lys36) Monoclonal Antibody (Q12) (Red) was diluted at 1:200 (4° overnight). 2, Goat Anti Rabbit Alexa Fluor 594 Catalog: RS3611 was diluted at 1:1000 (room temperature, 50min). Goat Anti Mouse Alexa Fluor 488 Catalog: RS3208 was diluted at 1:1000 (room temperature, 50min).



Western blot analysis of 293T 3T3 lysis using mtTFA antibody. Antibody was diluted at 1:500

Immunofluorescence analysis of HepG2 cells, using TFAM Antibody. The picture on the right is blocked with the synthesized peptide.



Immunohistochemistry analysis of paraffin-embedded human liver carcinoma tissue, using TFAM Antibody. The picture on the right is blocked with the synthesized peptide.