TFAM

Polyclonal ANTIBODY

Catalog Number: 19998-1-AP

Basic Information

- **Catalog Number:** 19998-1-AP
- **GenBank Accession Number:** NM_003201
- **GeneID (NCBI):** 7019
- **Full Name:** transcription factor A, mitochondrial
- **IgG:** 29 kDa
- **Observed MW:** 25 kDa
- **Recommended Dilutions:**
  - WB: 1:500-1:1000
  - IHC: 1:20-1:200

Applications

- **Tested Applications:** ELISA, IHC, WB
- **Cited Applications:** WB
- **Species Specificity:** human, mouse
- **Cited Species:** human, mouse
- **Positive Controls:**
  - WB: Jurkat cells;
  - IHC: human liver cancer tissue, human heart tissue, human liver cancer tissue

Background Information

TFAM, also named as TCF6L2, MTFL1, TCFL1, TCFL1L, TCFL3 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. The molecular weight of TFAM isoforms are 25 kDa and 29 kDa, but the Ubiquitination of TFAM protein is about 35-37 kDa (PMID: 24607487).

Notable Publications

<table>
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<tr>
<th>Author</th>
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<tbody>
<tr>
<td>Jing Geng</td>
<td>26414765</td>
<td>Nat Immunol</td>
<td>WB</td>
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<tr>
<td>Yongzhang Liu</td>
<td>25528030</td>
<td>Oncotarget</td>
<td>WB</td>
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<td>Ji-Soo Kim</td>
<td>26585712</td>
<td>J Cell Biochem</td>
<td>WB</td>
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Storage

- **Storage:** Store at -20ºC. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.02% sodium azide and 50% glycerol pH 7.3
- **Aliquoting is unnecessary for -20ºC storage

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

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W: ptglab.com

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Jurkat cells were subjected to SDS PAGE followed by western blot with 19998-1-AP (TFAM antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.

Immunohistochemical of paraffin-embedded human liver cancer using 19998-1-AP (TFAM antibody) at dilution of 1:50 (under 10x lens).

Immunohistochemical of paraffin-embedded human liver cancer using 19998-1-AP (TFAM antibody) at dilution of 1:50 (under 40x lens).