

TCF6 Rabbit monoclonal antibody

Catalog: MB66261

Host: Rabbit

Reactivity: Human

BackGround:

TFAM (Transcription Factor A, Mitochondrial; aka TCF6) is a member of the high-mobility group (HMG) proteins because it contains two HMG boxes. TFAM is a transcription factor for mitochondrial DNA (mtDNA), and enhances mtDNA transcription in a promoter-specific fashion in the presence of mitochondrial RNA polymerase and transcription factor B. Because the majority of ATP production depends on the mitochondrial respiratory chain, maintenance of the mitochondrial genome is critical for normal health. TFAM plays an essential role in the maintenance of mtDNA and thus, ATP production. TFAM binds to mtDNA both nonspecifically and in a sequence-specific manner. It is known to have a dual effect on mtDNA: protection of mtDNA and initiation of transcription from mtDNA. TFAM attenuates age-dependent impairment of the brain by preventing oxidative stress and mitochondrial dysfunctions in microglia.

Product:

Liquid in 50mM Tris-Glycine (pH 7.4), 0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA.

Molecular Weight:

~ 23 kDa

Swiss-Prot:

Q00059

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000), IHC (1/50 - 1/100), IF/ICC (1/50 - 1/100), IP (1/10 - 1/50)

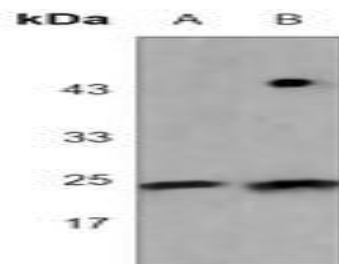
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

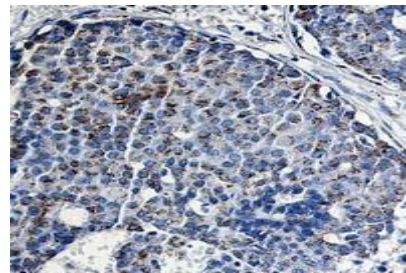
Specificity:

Recognizes endogenous levels of TCF6 protein.

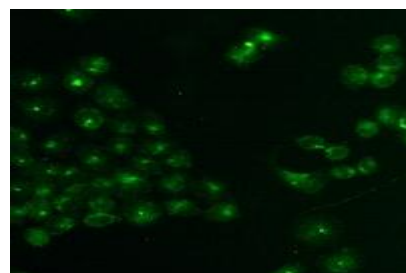
DATA:



Western blot analysis of TCF6 expression in K562 (A), HeLa (B) whole cell lysates.



Immunohistochemical analysis of TCF6 staining in human breast carcinoma formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.3). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of TCF6 staining in HeLa cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells

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PRODUCT DATA SHEET

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were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark.

Note:

For research use only, not for use in diagnostic procedure.

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