

Anti-mTERF Antibody

Catalog # AP51875

Product Information

Application	WB, IHC, IF/IC
Primary Accession	Q99551
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	45778

Additional Information

Gene ID	7978
Other Names	Transcription termination factor mitochondrial; Mitochondrial transcription termination factor 1; mTERF; mTERF1
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the center region of human mTERF. The exact sequence is proprietary.
Dilution	WB~~ 1:1000 IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

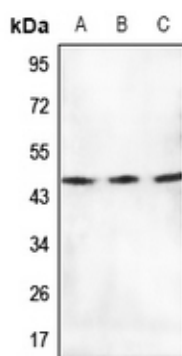
Protein Information

Name	MTERF1
Synonyms	MTERF
Function	Transcription termination factor. Binds to a 28 bp region within the tRNA(Leu(uur)) gene at a position immediately adjacent to and downstream of the 16S rRNA gene; this region comprises a tridecamer sequence critical for directing accurate termination. Binds DNA along the major groove and promotes DNA bending and partial unwinding. Promotes base flipping. Transcription termination activity appears to be polarized with highest specificity for transcripts initiated on the light strand.
Cellular Location	Mitochondrion.

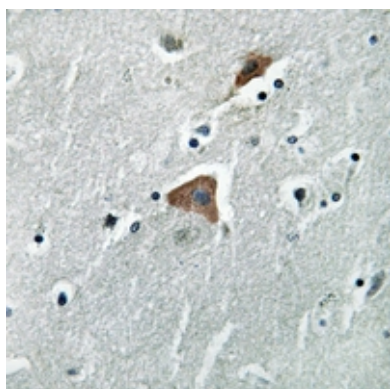
References

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 Scherer S.W.,et al.Science 300:767-772(2003).
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 Hillier L.W.,et al.Nature 424:157-164(2003).

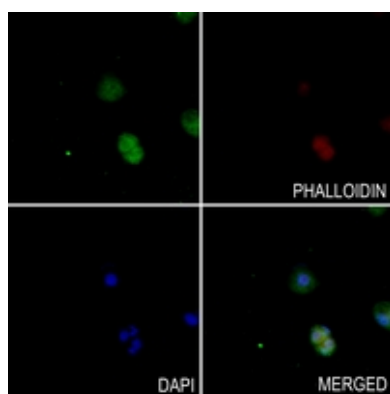
Images



Western blot analysis of mTERF expression in HEK293T (A), Hela (B), rat lung (C) whole cell lysates. (Predicted band size: 45 kD; Observed band size: 46 kD)



Immunohistochemical analysis of mTERF staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). 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 mTERF 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 were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.