



Rabbit Anti-MTERF1 antibody

SL13340R

Product Name:	MTERF1
Chinese Name:	Mitochondrion转录终止因子1抗体
Alias:	mitochondrial; Mitochondrial transcription termination factor 1; MTERF1; mTERF; MTERF_HUMAN; Transcription termination factor.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	39kDa
Cellular localization:	cytoplasmic Mitochondrion
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human MTERF1:101-200/399
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	Members of the mTERF family, including MTERF, MTERFD1, MTERFD2 and MTERFD3, are mitochondrial proteins that are believed to be transcription termination factors. MTERF (mitochondrial transcription termination factor 1) is composed of 399 amino acids and contains three leucine zippers that form a three-stranded coiled-coil that binds to DNA. It has been suggested that only the phosphorylated form of MTERF has transcription termination activity. MTERFD1 is also thought to act as a

mitochondrial transcription regulator and is expressed as two isoforms produced by alternative splicing. MTERFD3 is believed to be involved in cell cycle regulation and cell growth by modulating mitochondrial transcription. MTERFD3 is expressed in heart, skeletal muscle, pancreas and liver.

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. Probably requires one or more components for termination activity.

Subunit:

Monomer.

Subcellular Location:

Mitochondrion.

Post-translational modifications:

Phosphoprotein with mostly four phosphate groups. While the DNA-binding activity is unaffected by the phosphorylation state, only the phosphorylated form of the protein is active for termination activity. Functioning seems to be regulated by phosphorylation.

Similarity:

Belongs to the mTERF family.

SWISS:

Q99551

Gene ID:

7978

Database links:

[Entrez Gene: 7978](#)Human

[Entrez Gene: 545725](#)Mouse

[Entrez Gene: 85261](#)Rat

[Omim: 602318](#)Human

[SwissProt: Q99551](#)Human

[SwissProt: Q8CHZ9](#)Mouse

[SwissProt: Q9EPI8](#)Rat

	<p>Important Note:</p>
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This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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