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MTERFD2 Antibody
Catalog # ASC11636

Specification

MTERFD2 Antibody - Product Information

Application	**WB, IHC, IF**
Primary Accession	Q7Z6M4
Other Accession	NP_872307, 42740903
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**Predicted: 42 kDa** **Observed: 44 kDa KDa**
Application Notes	**MTERFD2 Antibody can be used for detection of MTERFD2 by Western blot at 1 µg/mL.**

MTERFD2 Antibody - Additional Information

Gene ID **130916**

Target/Specificity
MTERFD2; At least three isoforms of MTERFD2 are known to exist. MTERFD2 antibody is predicted to not cross-react with other MTERFD protein family members.

Reconstitution & Storage
MTERFD2 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.

Precautions
MTERFD2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

MTERFD2 Antibody - Protein Information

Name MTERF4

Synonyms MTERFD2

Function
Regulator of mitochondrial ribosome biogenesis and translation. Binds to mitochondrial ribosomal RNAs 16S, 12S and 7S and targets NSUN4 RNA methyltransferase to the mitochondrial large ribosomal subunit (39S).

Cellular Location
Mitochondrion

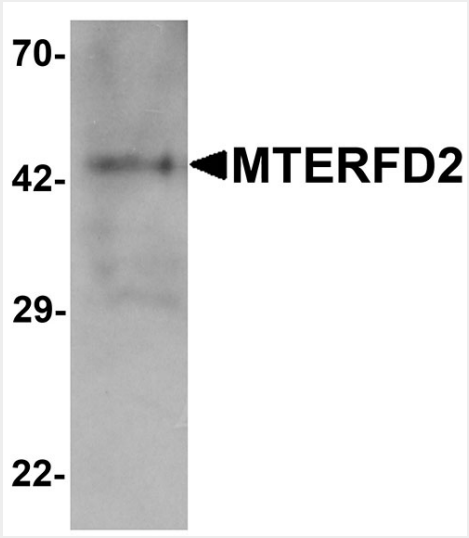
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MTERFD2 Antibody - Protocols

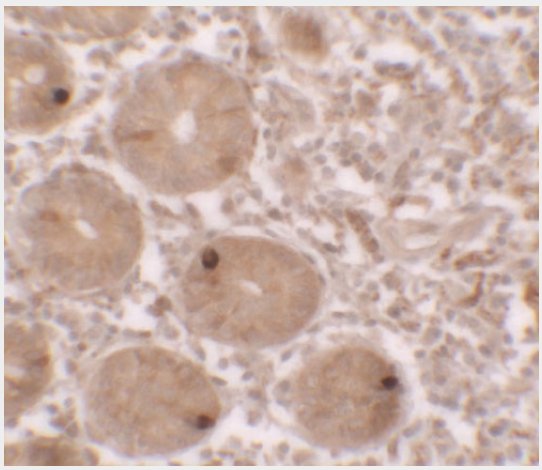
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

MTERFD2 Antibody - Images

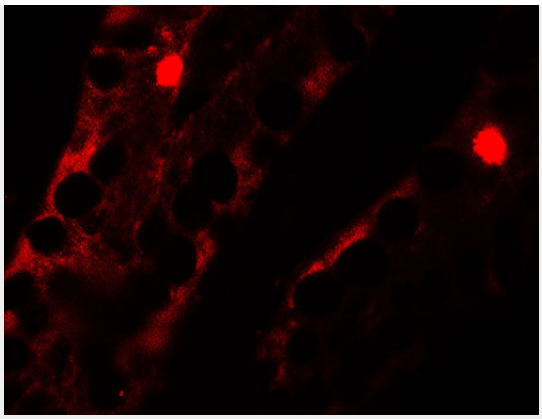


Western blot analysis of MTERFD2 in human small intestine tissue lysate with MTERFD2 antibody at 1 µg/mL.



Immunohistochemistry of MTERFD2 in human small intestine tissue with MTERFD2 antibody at 2.5 µg/ml.

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Immunofluorescence of MTERFD2 in human small intestine tissue with MTERFD2 antibody at 20 µg/ml.

MTERFD2 Antibody - Background

MTERFD2 Antibody: Members of the mTERF (mitochondrial transcription termination factor) family, are mitochondrial proteins that are believed to be transcription termination factors. MTERFD2 is targeted to the mitochondria and is ubiquitously expressed, with highest expression levels in fore- and midbrain, diencephalon, spinal cord, tongue, lung liver and kidney. MTERFD2 has been suggested to play a role in organ differentiation during embryogenesis. A closely related mTERF family member, MTERFD3, is believed to be involved in cell cycle regulation and cell growth by modulating mitochondrial transcription.

MTERFD2 Antibody - References

Fernandez-Silva P, et al. The human mitochondrial transcription termination factor (mTERF) is a multizipper protein but binds to DNA as a monomer, with evidence pointing to intramolecular leucine zipper interactions. EMBO J. 1997; 16:1066-79.
Xu Q, Zhang F, He H, et al. Expression profile of mouse Mterfd2, a novel component of the mitochondrial transcription termination (MTERF) family. Genes Genet. Syst. 2011; 86:269-75.
Park CB, Asin-Cayuela J, Camara Y, et al. MTERF3 is a negative regulator of mammalian mtDNA transcription. Cell 2007; 130:273-85.