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MTIF2 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP16956a

Specification

MTIF2 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession P46199

MTIF2 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 4528

Other Names
Translation initiation factor IF-2, mitochondrial, IF-2(Mt), IF-2Mt, IF2(mt), MTIF2

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

MTIF2 Antibody (N-term) Blocking Peptide - Protein Information

Name MTIF2

Function
One of the essential components for the initiation of protein synthesis. Protects formylmethionyl-tRNA from spontaneous hydrolysis and promotes its binding to the 30S ribosomal subunits. Also involved in the hydrolysis of GTP during the formation of the 70S ribosomal complex.

Cellular Location
Mitochondrion.

Tissue Location
Expressed in all tissues examined. Highest level in skeletal muscle

MTIF2 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

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MTIF2 Antibody (N-term) Blocking Peptide - Images

MTIF2 Antibody (N-term) Blocking Peptide - Background

During the initiation of protein biosynthesis, initiationfactor-2 (IF-2) promotes the binding of the initiator tRNA to thesmall subunit of the ribosome in a GTP-dependent manner.Prokaryotic IF-2 is a single polypeptide, while eukaryoticcytoplasmic IF-2 (eIF-2) is a trimeric protein. Bovine livermitochondria contain IF-2(mt), an 85-kD monomeric protein that isequivalent to prokaryotic IF-2. The predicted 727-amino acid humanprotein contains a 29-amino acid presequence. Human IF-2(mt) shares32 to 38% amino acid sequence identity with yeast IF-2(mt) andseveral prokaryotic IF-2s, with the greatest degree of conservationin the G domains of the proteins. Two transcript variants encodingthe same protein have been found for this gene. [provided byRefSeq].

MTIF2 Antibody (N-term) Blocking Peptide - References

Dick, D.M., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. (2010) In press :Reiling, E., et al. Eur. J. Hum. Genet. 17(8):1056-1062(2009)Miura, E., et al. Plant Cell 19(4):1313-1328(2007)Bouwmeester, T., et al. Nat. Cell Biol. 6(2):97-105(2004)Overman, R.G. Jr., et al. Biochim. Biophys. Acta 1628(3):195-205(2003)