

MTIF2 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP16956a

Product Information

Application	WB, E
Primary Accession	P46199
Other Accession	NP_001005369.1 , NP_002444.2
Reactivity	Human
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB36592
Calculated MW	81317
Antigen Region	138-167

Additional Information

Gene ID	4528
Other Names	Translation initiation factor IF-2, mitochondrial, IF-2(Mt), IF-2Mt, IF2(mt), MTIF2
Target/Specificity	This MTIF2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 138-167 amino acids from the N-terminal region of human MTIF2.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	MTIF2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	MTIF2
Function	Mitochondrial translation initiation factor that promotes binding of formylmethionyl-tRNA to the 30S ribosomal subunits (By similarity). Also

involved in the hydrolysis of GTP during the formation of the 70S ribosomal complex (By similarity).

Cellular Location

Mitochondrion.

Tissue Location

Expressed in all tissues examined. Highest level in skeletal muscle

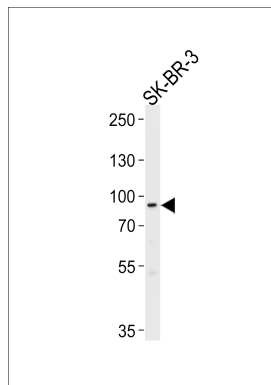
Background

During the initiation of protein biosynthesis, initiation factor-2 (IF-2) promotes the binding of the initiator tRNA to the small subunit of the ribosome in a GTP-dependent manner. Prokaryotic IF-2 is a single polypeptide, while eukaryotic cytoplasmic IF-2 (eIF-2) is a trimeric protein. Bovine liver mitochondria contain IF-2(mt), an 85-kD monomeric protein that is equivalent to prokaryotic IF-2. The predicted 727-amino acid human protein contains a 29-amino acid presequence. Human IF-2(mt) shares 32 to 38% amino acid sequence identity with yeast IF-2(mt) and several prokaryotic IF-2s, with the greatest degree of conservation in the G domains of the proteins. Two transcript variants encoding the same protein have been found for this gene. [provided by RefSeq].

References

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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)
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Images



Western blot analysis of lysate from SK-BR-3 cell line, using MTIF2 Antibody (N-term)(Cat. #AP16956a). AP16956a was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug per lane.

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