GTPBP3 Antibody(center) Blocking Peptide

PRODUCT OVERVIEW

Product Name	GTPBP3, Blocking Peptide
Full Product Name	GTPBP3 Antibody(Center) Blocking peptide
Product Gene Name	GTPBP3 blocking peptide
Product Synonym Gene Name	MTGP1
Product Synonym Names	tRNA modification GTPase GTPBP3; mitochondrial; GTP-binding protein 3; Mitochondrial GTP-binding protein 1; GTPBP3; MTGP1
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	GTPBP3 peptide (MBS9224370) is used for blocking the activity of GTPBP3 antibody (MBS9202204)
Molecular Weight	54,440 Da
OMIM	580000
Cellular Location	Mitochondrion.
Tissue Location	Ubiquitously expressed.
Related Product Information for GTPBP3 blocking peptide	GTPase involved in the 5-carboxymethylaminomethyl modification (mnm(5)s(2)U34) of the wobble uridine base in mitochondrial tRNAs.
Other Notes	Small volumes of GTPBP3 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for GTPBP3 purchase	MBS9224370 is a blocking peptide targeting GTPBP3. Also known as GTPBP3 Antibody(Center) Blocking peptide.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GTPBP3. It may not necessarily be applicable to this product.

NCBI GI #	313104112
NCBI GeneID	84705
NCBI Accession #	Q969Y2.2
UniProt Primary Accession #	Q969Y2
UniProt Secondary Accession #	Q8TCY6; Q8WUW9; Q969G4; Q9BX61; A6NFH1; A6NIG5; A6NKR4; A8K7B4; B7Z4V8
UniProt Related Accession #	Q969Y2
NCBI Official Full Name	tRNA modification GTPase GTPBP3, mitochondrial
NCBI Official Synonym Full Names	GTP binding protein 3 (mitochondrial)
NCBI Official Symbol	GTPBP3
NCBI Official Synonym Symbols	MSS1; MTGP1; THDF1; GTPBG3; COXPD23

UniProt Protein Name	tRNA modification GTPase GTPBP3, mitochondrial
UniProt Synonym Protein Names	GTP-binding protein 3; Mitochondrial GTP-binding protein 1
Protein Family	tRNA modification GTPase
UniProt Gene Name	GTPBP3
UniProt Synonym Gene Names	MTGP1
UniProt Entry Name	GTPB3_HUMAN
NCBI Protein Information	tRNA modification GTPase GTPBP3, mitochondrial
NCBI Summary for GTPBP3	This locus encodes a GTP-binding protein. The encoded protein is localized to the mitochondria and may play a role in mitochondrial tRNA modification. Polymorphisms at this locus may be associated with severity of aminoglycoside-induced deafness, a disease associated with a mutation in the 12S rRNA. Alternatively spliced transcript variants encoding different isoforms have been described. [provided by RefSeq, Sep 2010]
UniProt Comments for GTPBP3	GTPBP3: GTPase involved in the 5-carboxymethylaminomethyl modification (mnm(5)s(2)U34) of the wobble uridine base in mitochondrial tRNAs (Probable). Belongs to the Era/MnmE GTP-binding protein family. MnmE subfamily. 3 isoforms of the human protein are produced by alternative splicing. Chromosomal Location of Human Ortholog: 19p13.11 Cellular Component: mitochondrion Molecular Function: protein binding Disease: Combined Oxidative Phosphorylation Deficiency 23
Research Articles on GTPBP3	**1.** GTPBP3 defective expression is associated with an mitochondrial-tRNA hypomodification status.GTPBP3 plays a role in the regulation of UCP2 and MCP1 proteins through AMPK signaling.
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