GATB Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	GATB, Blocking Peptide
Full Product Name	GATB Peptide - N-terminal region
Product Gene Name	GATB blocking peptide
Product Synonym Gene Name	PET112; HSPC199; PET112L; GATB
Sequence	Synthetic peptide located within the following region: GSTSNQIRGE SSVAQQPLHT AQKTRKGEHK WAAVVGLEIH AQISSNSKLF
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	GATB peptide (MBS3243746) is used for blocking the activity of GATB antibody (MBS3218854)
Molecular Weight	58kDa
OMIM	AF026851 mRNA
Product Categories/Family for GATB blocking peptide	Peptide
Applications Tested/Suitable for GATB blocking peptide	Western Blot (WB)
Related Product Information for GATB blocking peptide	MBS3243746 is a blocking peptide targeting GATB. Also known as GATB Peptide - N-terminal region. Reactive in Human.
Other Notes	Small volumes of GATB 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.

ADDITIONAL DETAILS

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

NCBI GI #	4758894
NCBI GeneID	5188
NCBI Accession #	NP_004555
UniProt Primary Accession #	O75879
UniProt Related Accession #	O75879
GenBank Nucleotide #	NM_004564
NCBI Official Full Name	glutamyl-tRNA(Gln) amidotransferase subunit B, mitochondrial isoform 1
NCBI Official Synonym Full Names	glutamyl-tRNA amidotransferase subunit B
NCBI Official Symbol	GATB
NCBI Official Synonym Symbols	PET112; HSPC199; PET112L

UniProt Protein Name	Glutamyl-tRNA(Gln) amidotransferase subunit B, mitochondrial
UniProt Synonym Protein Names	Cytochrome c oxidase assembly factor PET112 homolog
Protein Family	Aspartyl/glutamyl-tRNA(Asn/Gln) amidotransferase
UniProt Gene Name	GATB
UniProt Synonym Gene Names	Glu-AdT subunit B
NCBI Protein Information	glutamyl-tRNA(Gln) amidotransferase subunit B, mitochondrial
UniProt Comments for GATB	PET112L: Allows the formation of correctly charged Gln-tRNA(Gln) through the transamidation of misacylated Glu-tRNA(Gln) in the mitochondria. The reaction takes place in the presence of glutamine and ATP through an activated gamma-phospho-Glu- tRNA(Gln). Belongs to the GatB/GatE family. GatB subfamily. Protein type: EC 6.3.5.-; Ligase; Mitochondrial; RNA-binding; Translation Chromosomal Location of Human Ortholog: 4q31.3 Cellular Component: mitochondrion Molecular Function: ATP binding; glutaminyl-tRNA synthase (glutamine-hydrolyzing) activity; translation factor activity, nucleic acid binding Biological Process: mitochondrial translation; translation
Research Articles on GATB	**1.** Observational study of gene-disease association. (HuGE Navigator)
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