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PET112L Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP17705a

Specification

PET112L Antibody (N-term) Blocking Peptide - Product Information

Primary Accession O75879

PET112L Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 5188

Other Names
Glutamyl-tRNA(Gln) amidotransferase subunit B, mitochondrial {ECO:0000255|HAMAP-Rule:MF_03147}, Glu-AdT subunit B {ECO:0000255|HAMAP-Rule:MF_03147}, 635- {ECO:0000255|HAMAP-Rule:MF_03147}, Cytochrome c oxidase assembly factor PET112 homolog, GATB

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.

PET112L Antibody (N-term) Blocking Peptide - Protein Information

Name GATB {ECO:0000255|HAMAP-Rule:MF_03147, ECO:0000312|HGNC:HGNC:8849}

Function
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).

Cellular Location
Mitochondrion {ECO:0000255|HAMAP-Rule:MF_03147, ECO:0000269|PubMed:9878253}

Tissue Location
Predominantly expressed in tissues characterized by high rates of oxidative phosphorylation (OxPhos), including muscle and heart.

PET112L Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

PET112L Antibody (N-term) Blocking Peptide - Images

PET112L Antibody (N-term) Blocking Peptide - Background

PET112L furnishes a means for 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) (Potential).

PET112L Antibody (N-term) Blocking Peptide - References

Nagao, A., et al. Proc. Natl. Acad. Sci. U.S.A. 106(38):16209-16214(2009)Petruzzella, V., et al. Genomics 54(3):494-504(1998)