

### PET112 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP20796a

## **Specification**

### PET112 Antibody (N-term) - Product Information

Application WB,E
Primary Accession O75879
Reactivity Human
Host Rabbit
Clonality Polyclonal
Isotype Rabbit IgG
Calculated MW 61864

## PET112 Antibody (N-term) - 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

## Target/Specificity

This PET112 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 25-60 amino acids from the N-terminal region of human PET112.

## **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**

PET112 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

## PET112 Antibody (N-term) - 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**

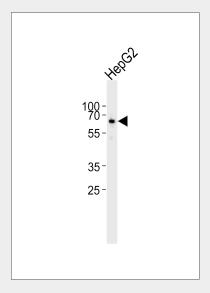
Predominantly expressed in tissues characterized by high rates of oxidative phosphorylation (OxPhos), including muscle and heart.

## PET112 Antibody (N-term) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# PET112 Antibody (N-term) - Images



Western blot analysis of lysate from HepG2 cell line, using PET112 Antibody (N-term)(Cat. #AP20796a). AP20796a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

## PET112 Antibody (N-term) - Background

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).

## PET112 Antibody (N-term) - References





Petruzzella V.,et al.Genomics 54:494-504(1998). Zhang Q.-H.,et al.Genome Res. 10:1546-1560(2000). Ota T.,et al.Nat. Genet. 36:40-45(2004). Hillier L.W.,et al.Nature 434:724-731(2005). Mural R.J.,et al.Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.