

PET112 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP20796a

Product Information

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|-------------------|------------------------|
| Application | WB, E |
| Primary Accession | O75879 |
| Reactivity | Human |
| Host | Rabbit |
| Clonality | Polyclonal |
| Isotype | Rabbit IgG |
| Clone Names | RB49790 |
| Calculated MW | 61864 |

Additional Information

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|--------------------|---|
| 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. |

Protein Information

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|----------|---|
| 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.

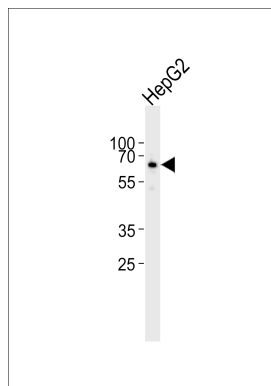
Background

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).

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.

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.

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