



Rabbit Anti-PET112L antibody

SL11667R

Product Name:	PET112L
Chinese Name:	细胞色素氧化酶装配因子PET112抗体
Alias:	Cytochrome oxidase assembly factor PET112 homolog; GATB_HUMAN; GLU-ADT subunit B; HSPC199; mitochondrial; PET112; PET112 homolog (yeast); PET112-like; Probable glutamyl-tRNA(Gln) amidotransferase subunit B.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Dog,Cow,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	58kDa
Cellular localization:	cytoplasmicMitochondrion
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human PET112L:101-200/557
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	PET112L is the human homolog of the S. cerevisiae COX assembly protein pet112, a protein that is believed to play an important role in the translation of mitochondrial genes. PET112L, also known as HSPC199 or Glu-ADT subunit B (glutamyl-tRNA(Gln) amidotransferase subunit B), is a 557 amino acid protein belonging to the gatB/gatE family of proteins (GatB subfamily) and is believed to play a role in energy

metabolism. Localizing to mitochondria, PET112L is expressed in tissues such as heart and muscle, which exhibit high rates of oxidative phosphorylation. The gene encoding PET112L is overexpressed in recurrent ependymoma.

Function:

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).

Subunit:

Subunit of the heterotrimeric GatCAB amidotransferase (AdT) complex, composed of A (QRSL1), B (PET112) and C (GATC) subunits.

Subcellular Location:

Mitochondrion.

Tissue Specificity:

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

Similarity:

Belongs to the gatB/gatE family. GatB subfamily.

SWISS:

O75879

Gene ID:

5188

Database links:

[Entrez Gene: 5188](#)Human

[Omir: 603645](#)Human

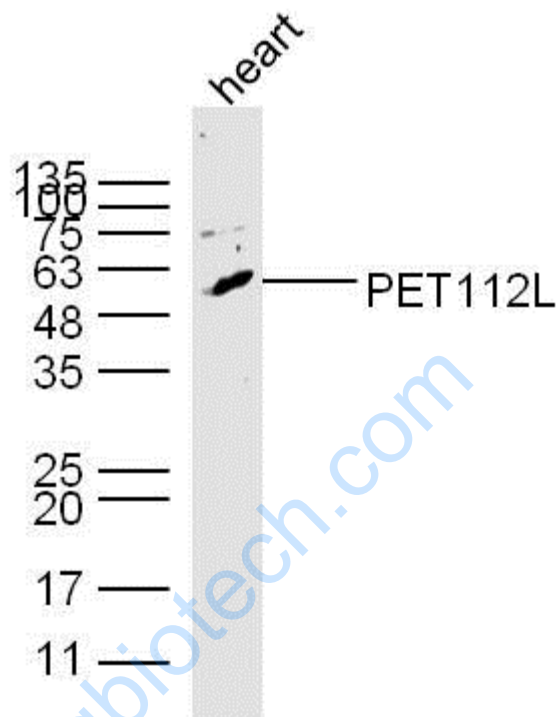
[SwissProt: O75879](#)Human

[Unigene: 119316](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

Picture:



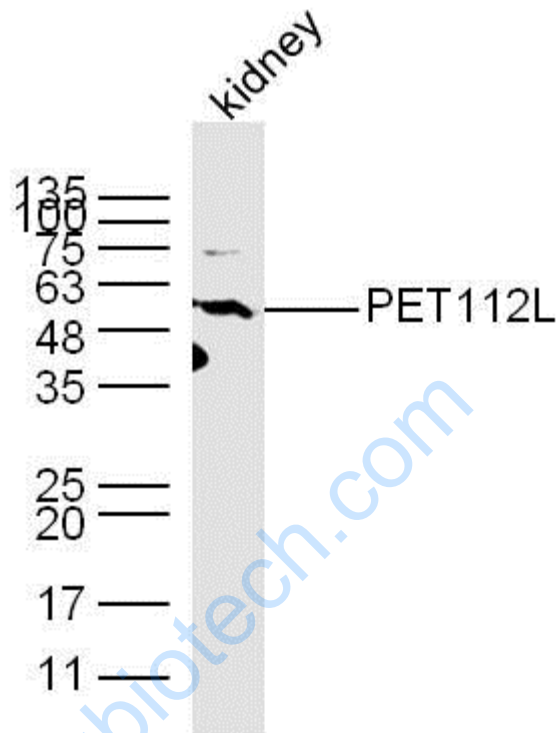
Sample: Heart (Mouse) Lysate at 40 ug

Primary: Anti-PET112L (SL11667R) at 1/300 dilution

Secondary: HRP conjugated Goat-Anti-rabbit IgG (SL11667R) at 1/5000 dilution

Predicted band size: 58 kD

Observed band size: 58 kD



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