

COX7B Polyclonal antibody

Catalog Number: 11417-2-AP

3 Publications

Basic Information

Catalog Number:

11417-2-AP

Size:

850 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG1988

GenBank Accession Number:

BC018386

GeneID (NCBI):

1349

UNIPROT ID:

P24311

Full Name:

cytochrome c oxidase subunit VIIb

Calculated MW:

80 aa, 9 kDa

Observed MW:

9 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:10000

IHC 1:50-1:500

Applications

Tested Applications:

IHC, WB, ELISA

Cited Applications:

WB

Species Specificity:

human, mouse, rat

Cited Species:

human, mouse

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse brain tissue, rat brain tissue

IHC : mouse heart tissue,

Background Information

COX7B, also named as Cytochrome c oxidase subunit 7B, mitochondrial, is a 80 amino acid protein, which belongs to the cytochrome c oxidase VIIb family. COX7B protein is one of the nuclear-coded polypeptide chains of cytochrome c oxidase, the terminal oxidase in mitochondrial electron transport. COX7B plays a role in proper central nervous system development in vertebrates. COX7B as a terminal enzyme in the mitochondrial respiratory chain (oxidative phosphorylation OXPHOS), catalyzing the electron transfer from reduced cytochrome c to molecule oxygen and plays a role in eye development.

Notable Publications

Author	Pubmed ID	Journal	Application
Lei Wu	33129969	J Nutr Biochem	WB
Shiyun Feng	37142077	Arch Biochem Biophys	WB
Oliva Claudia R CR	20870728	J Biol Chem	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

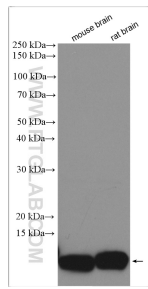
For technical support and original validation data for this product please contact:

T: 4006900926

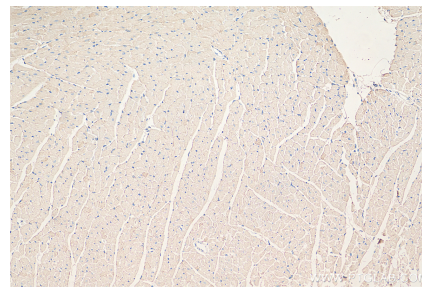
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 11417-2-AP (COX7B antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse heart tissue slide using 11417-2-AP (COX7B antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).