

For Research Use Only

COX7A1 Polyclonal antibody

Catalog Number: 11413-1-AP **5 Publications**



Basic Information

Catalog Number: 11413-1-AP	GenBank Accession Number: BC002757	Purification Method: Antigen affinity purification
Size: 400 µg/ml	GeneID (NCBI): 1346	Recommended Dilutions: WB 1:500-1:2000 IHC 1:20-1:200
Source: Rabbit	UNIPROT ID: P24310	
Isotype: IgG	Full Name: cytochrome c oxidase subunit VIIa polypeptide 1 (muscle)	
Immunogen Catalog Number: AG1981	Calculated MW: 79 aa, 9 kDa	
	Observed MW: 7-9 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls:
Cited Applications: WB, IHC, IF	WB: mouse heart tissue, human brain tissue, human kidney tissue
Species Specificity: human, mouse	IHC: human gliomas tissue,
Cited Species: human, mouse, rat	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

Cytochrome c oxidase (COX) catalyzes the transfer of electrons from reduced cytochrome c to molecular oxygen. Subunit VIIa of mammalian COX exists in at least 2 isoforms, liver and muscle. COX7A1 (Cytochrome c oxidase subunit 7A1, mitochondrial) is also named as COX7AH, cytochrome c oxidase subunit VIIa-H, cytochrome c oxidase subunit VIIa-M and is the muscle isoform of COX subunit VIIa. Northern-blot analysis of primate tissues demonstrated that COXVIIa-M mRNA is present only in muscle tissues (PMID:1327965).

Notable Publications

Author	Pubmed ID	Journal	Application
Ben Shabat Moti	34179944	Cereb Cortex	IHC
Veronika Boczonadi	25666558	Int J Biochem Cell Biol	WB, IF
Si-Yu Wang	38830579	Lab Invest	WB

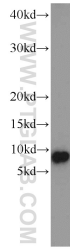
Storage

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

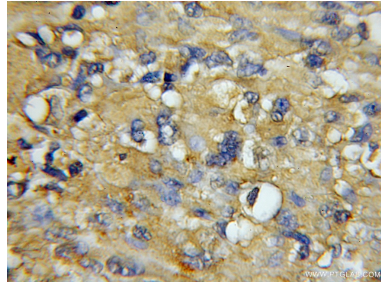
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Selected Validation Data



mouse heart tissue were subjected to SDS PAGE followed by western blot with 11413-1-AP (COX7A1 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human gliomas using 11413-1-AP (COX7A1 antibody) at dilution of 1:100 (under 10x lens).