

For Research Use Only

MTCO3 Polyclonal antibody

Catalog Number: 55082-1-AP

14 Publications



Basic Information

Catalog Number: 55082-1-AP	GenBank Accession Number: YP_003024032	Purification Method: Antigen affinity purification
Size: 150ul, Concentration: 700 µg/ml by Nanodrop and 533 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4514	Recommended Dilutions: WB 1:1000-1:4000 IHC 1:50-1:500
Source: Rabbit	Full Name: cytochrome c oxidase III	
Isotype: IgG	Calculated MW: 30 kDa	
	Observed MW: 32-35 kDa	

Applications

Tested Applications: IHC, WB, ELISA	Positive Controls:
Cited Applications: IF, WB	WB: mouse kidney tissue, C2C12 cells, mouse liver tissue, rat kidney tissue, rat liver tissue
Species Specificity: human, mouse, rat	IHC: mouse cerebellum tissue, mouse kidney tissue
Cited Species: human, rat, mouse	
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

MTCO3 (cytochrome c oxidase subunit III) is a mitochondrial DNA encoded subunit of respiratory Complex IV which is located within the mitochondrial inner membrane and is the final enzyme of the electron transport chain of mitochondrial oxidative phosphorylation. The predicted MW of MTCO3 is 30 kDa, while it had been observed as 23 kDa in some papers (PMID: 17557076).

Notable Publications

Author	Pubmed ID	Journal	Application
Xiang Zhuang	31628462	Carcinogenesis	WB
Ritsuko Oikawa	36284651	Oncol Lett	IF, WB
Maria V. Baleva	36430722	Int J Mol Sci	WB

Storage

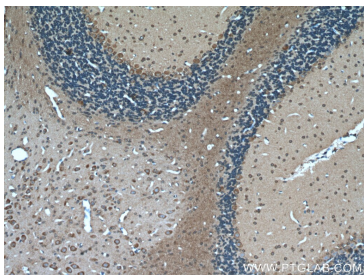
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

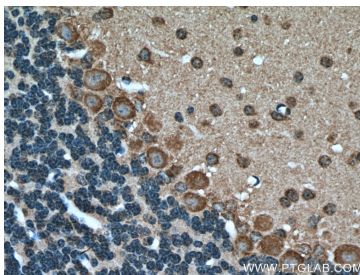
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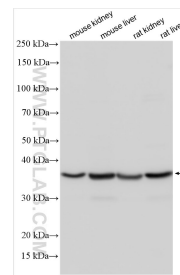
Selected Validation Data



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 55082-1-AP (MTCO3 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue slide using 55082-1-AP (MTCO3 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Various lysates were subjected to SDS PAGE followed by western blot with 55082-1-AP (MTCO3 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.