

For Research Use Only

# MTCO3 Polyclonal antibody

Catalog Number: 55082-1-AP

21 Publications



## Basic Information

Catalog Number:

55082-1-AP

Size:

150ul, Concentration: 550 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

YP\_003024032

GeneID (NCBI):

4514

UNIPROT ID:

P00414

Full Name:

cytochrome c oxidase III

Calculated MW:

30 kDa

Observed MW:

32-35 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:50-1:500

## Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat

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**

Positive Controls:

WB : mouse kidney tissue, C2C12 cells, mouse liver tissue, rat kidney tissue, rat liver tissue

IHC : mouse cerebellum tissue, mouse kidney tissue

## 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

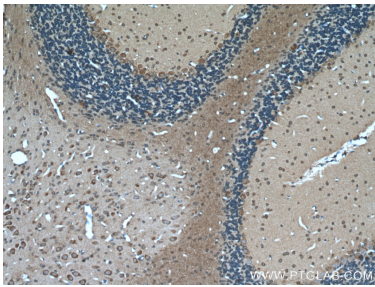
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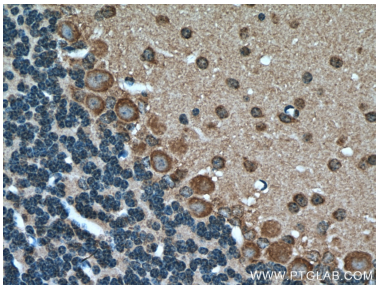
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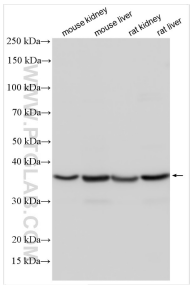
Selected Validation Data



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.