

## COX7C Polyclonal antibody

Catalog Number: 11411-2-AP **6 Publications**

## Basic Information

|  |  |   |
|--|--|---|
| <b>Catalog Number:</b><br>11411-2-AP       | <b>GenBank Accession Number:</b><br>BC007498           | <b>Purification Method:</b><br>Antigen affinity purification                        |
| <b>Size:</b><br>400 µg/ml                  | <b>GeneID (NCBI):</b><br>1350                          | <b>Recommended Dilutions:</b><br>WB 1:500-1:2000<br>IHC 1:20-1:200<br>IF 1:20-1:200 |
| <b>Source:</b><br>Rabbit                   | <b>UNIPROT ID:</b><br>P15954                           |   |
| <b>Isotype:</b><br>IgG                     | <b>Full Name:</b><br>cytochrome c oxidase subunit VIIc |   |
| <b>Immunogen Catalog Number:</b><br>AG1989 | <b>Calculated MW:</b><br>63 aa, 7 kDa                  |   |
|  | <b>Observed MW:</b><br>15-28 kDa                       |   |

## Applications

|  |  |
|--|--|
| <b>Tested Applications:</b><br>WB, IF/ICC, IHC, ELISA  | <b>Positive Controls:</b><br>WB : mouse ovary tissue, human skeletal muscle tissue<br>IHC : human gliomas tissue,<br>IF : MCF-7 cells, |
| <b>Cited Applications:</b><br>WB, IF   |  |
| <b>Species Specificity:</b><br>human, mouse, rat   |  |
| <b>Cited Species:</b><br>human, mouse  |  |
| <b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b> |  |

## Background Information

Cytochrome c oxidase (COX), the terminal component of the mitochondrial respiratory chain, is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. COX7C (Cytochrome c oxidase subunit 7C, mitochondrial) is one of the subunits, catalyzing the electron transfer from reduced cytochrome c to molecule oxygen. This protein belongs to the cytochrome c oxidase VIIc family. The calculated molecular weight of COX7C is 7 kDa, but due to the presence of the complex, a complex form of 28 kDa may also be observed.

## Notable Publications

| Author          | Pubmed ID | Journal                  | Application |
|-----------------|-----------|--------------------------|-------------|
| Weicheng Wu     | 30237463  | Cell Death Dis           | WB          |
| Lianqin Liu     | 30290033  | Cancer Sci               | WB          |
| Belén Ansoleaga | 27297670  | J Neuropathol Exp Neurol | IF          |

## 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

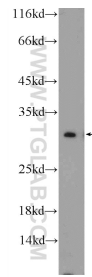
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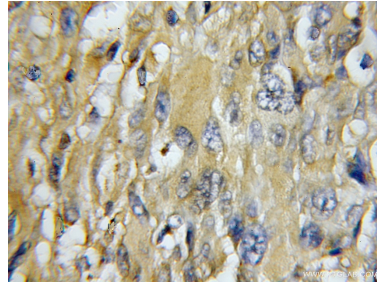
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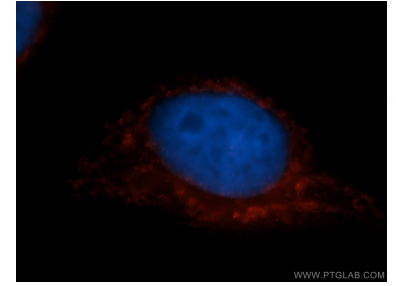
## Selected Validation Data



mouse ovary tissue were subjected to SDS PAGE followed by western blot with 11411-2-AP (COX7C Antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human gliomas using 11411-2-AP (COX7C antibody) at dilution of 1:100 (under 10x lens).



Immunofluorescent analysis of MCF-7 cells, using COX7C antibody 11411-2-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).