

# COX6A1 Polyclonal Antibody

Catalog Number:E-AB-62050

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

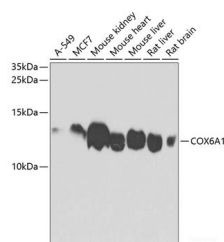
## Description

<b>Reactivity</b>	Human,Mouse,Rat
<b>Immunogen</b>	Recombinant fusion protein of human COX6A1 (NP_004364.2).
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Purification</b>	Affinity purification
<b>Conjugation</b>	Unconjugated
<b>Formulation</b>	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

## Applications Recommended Dilution

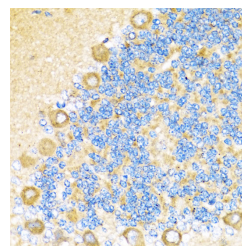
<b>WB</b>	1:200-1:2000
<b>IHC</b>	1:20-1:200
<b>IF</b>	1:50-1:200

## Data

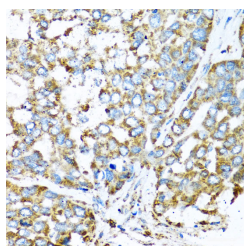


Western blot analysis of extracts of various cell lines using COX6A1 Polyclonal Antibody at dilution of 1:1000.

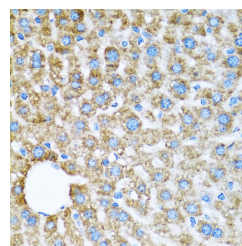
**Observed Mw:12kDa**  
**Calculated Mw:12kDa**



Immunohistochemistry of paraffin-embedded Rat cerebellum using COX6A1 Polyclonal Antibody at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded Human liver cancer using COX6A1 Polyclonal Antibody at dilution of 1:100 (40x lens).



Immunohistochemistry of paraffin-embedded Mouse liver using COX6A1 Polyclonal Antibody at dilution of 1:100 (40x lens).

## For Research Use Only

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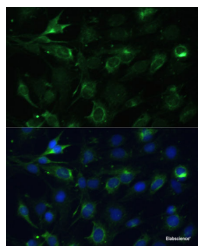
Tel: 1-832-243-6086

Email: [techsupport@elabscience.com](mailto:techsupport@elabscience.com)

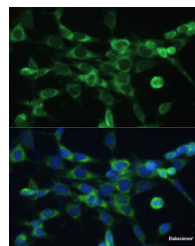
Fax: 1-832-243-6017

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Immunofluorescence analysis of C6 cells using COX6A1 Polyclonal Antibody at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of NIH-3T3 cells using COX6A1 Polyclonal Antibody at dilution of 1:100 (40x lens). Blue: DAPI for nuclear staining.

## Preparation & Storage

**Storage** Store at -20°C. Avoid freeze / thaw cycles.

## Background

Cytochrome c oxidase (COX), the terminal enzyme of the mitochondrial respiratory chain, catalyzes the electron transfer from reduced cytochrome c to oxygen. It is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in the electron transfer and the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes polypeptide 1 (liver isoform) of subunit VIa, and polypeptide 1 is found in all non-muscle tissues. Polypeptide 2 (heart/muscle isoform) of subunit VIa is encoded by a different gene, and is present only in striated muscles. These two polypeptides share 66% amino acid sequence identity. It has been reported that there may be several pseudogenes on chromosomes 1, 6, 7q21, 7q31-32 and 12. However, only one pseudogene (COX6A1P) on chromosome 1p31.1 has been documented.

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