

## Anti-COX4I1 Polyclonal Antibody

### Product Details

Ig Type:	IgG
Reactivity:	Human,Mouse,Rat (predicted:Dog,Pig,Cow,Horse)
Molecular Weight:	Theoretical: 17 kDa. Actual: 16 kDa.
Purification:	Protein A purified

### Applications

1. Tissue/cell: Rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH6.0), Boiling bathing for 15 min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30 min; Blocking buffer (normal goat serum) at 37°C for 20 min; Incubation: Anti-COX4 Polyclonal Antibody, Unconjugated (TMAB-00472) 1:200, overnight at 4° C, followed by conjugation to the secondary antibody and DAb staining.

2. Paraformaldehyde-fixed, paraffin embedded (Mouse brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15 min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 min; Blocking buffer (normal goat serum) at 37°C for 30 min; Antibody incubation with (COX4) Polyclonal Antibody, Unconjugated (TMAB-00472) at 1:500 overnight at 4°C, followed by a conjugated secondary for 20 min and DAB staining.

3. Sample:

Lane 1: Mouse Kidney tissue lysates

Lane 2: Mouse Heart tissue lysates

Lane 3: Mouse Muscle tissue lysates

Lane 4: Rat Kidney tissue lysates

Lane 5: Rat Heart tissue lysates

Lane 6: Rat Muscle tissue lysates

Lane 7: Human HeLa cell lysates

Lane 8: Human Jurkat cell lysates

Lane 9: Human THP-1 cell lysates

Lane 10: Human Raji cell lysates

Lane 11: Human HepG2 cell lysates

Lane 12: Human MCF-7 cell lysates

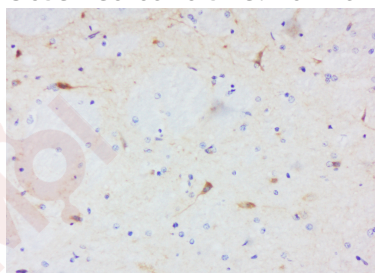
Primary: Anti-COX4I1 (TMAB-00472) at 1/1000 dilution

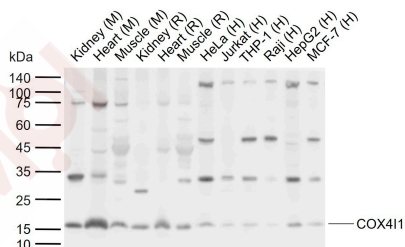
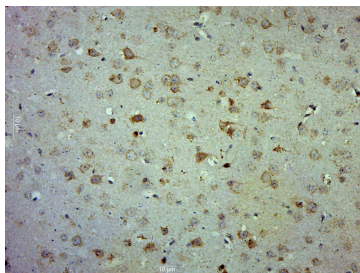
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 17 kDa

Observed band size: 16 kDa

Verified Activity:





Application: IF,IHC-Fr,IHC-P,WB

Recommended WB: 1:500-2000; IHC-P: 1:100-500; IHC-Fr: 1:100-500; IF: 1:100-500

### Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

### Antigen Details

Immunogen: KLH conjugated synthetic peptide: human COX411

Antigen Species: Human

Gene ID: 1327

Uniprot ID: P13073

Synonyms: Cytochrome c oxidase subunit 4 isoform 1, mitochondrial;Cytochrome c oxidase subunit IV isoform 1 (COX IV-1);COX4I1;Cytochrome c oxidase polypeptide IV;COX4;mitochondrial

Biology Area: Integration of energy metabolism,COX IV - Mitochondrial,Integration of energy,Mitochondrial markers,Complex IV,Mitochondrial,Mitochondria

### Research Background

Cytochrome c oxidase (COX) is the terminal enzyme of the mitochondrial respiratory chain. It is a multi-subunit enzyme complex that couples the transfer of electrons from cytochrome c to molecular oxygen and contributes to a proton electrochemical gradient across the inner mitochondrial membrane. The complex consists of 13 mitochondrial- and nuclear-encoded subunits. The mitochondrially-encoded subunits perform the electron transfer and proton pumping activities. The functions of the nuclear-encoded subunits are unknown but they may play a role in the regulation and assembly of the complex. This gene encodes the nuclear-encoded subunit IV isoform 1 of the human mitochondrial respiratory chain enzyme. It is located at the 3' of the NOC4 (neighbor of COX4) gene in a head-to-head orientation, and shares a promoter with it. [provided by RefSeq, Jul 2008]

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