

## MTCO2 Polyclonal Antibody

<b>Catalog No :</b>	YN0178
<b>Reactivity :</b>	Human;Rat
<b>Applications :</b>	WB;ELISA
<b>Target :</b>	COX2
<b>Fields :</b>	>>Oxidative phosphorylation;>>Metabolic pathways;>>Cardiac muscle contraction;>>Thermogenesis;>>Non-alcoholic fatty liver disease;>>Alzheimer disease;>>Parkinson disease;>>Amyotrophic lateral sclerosis;>>Huntington disease;>>Prion disease;>>Pathways of neurodegeneration - multiple diseases;>>Chemical carcinogenesis - reactive oxygen species;>>Diabetic cardiomyopathy
<b>Gene Name :</b>	MT-CO2 COII COXII MTCO2
<b>Protein Name :</b>	Cytochrome c oxidase subunit 2 (Cytochrome c oxidase polypeptide II)
<b>Human Gene Id :</b>	4513
<b>Human Swiss Prot No :</b>	P00403
<b>Mouse Swiss Prot No :</b>	P00405
<b>Rat Swiss Prot No :</b>	P00406
<b>Immunogen :</b>	Synthesized peptide derived from human protein . at AA range: 40-120
<b>Specificity :</b>	COX2 Polyclonal Antibody detects endogenous levels of protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500-2000 ELISA 1:5000-20000
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

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**Concentration :** 1 mg/ml

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**Storage Stability :** -15°C to -25°C/1 year(Do not lower than -25°C)

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**Observed Band :** 24kD

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**Cell Pathway :** Oxidative phosphorylation;Cardiac muscle contraction;Alzheimer's disease;Parkinson's disease;Huntington's disease;

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**Background :** cofactor:Copper A.,disease:Defects in MT-CO2 are a cause of cytochrome c oxidase deficiency (COX deficiency) [MIM:220110]; also called mitochondrial complex IV deficiency. COX deficiency is a clinically heterogeneous disorder. The clinical features are ranging from isolated myopathy to severe multisystem disease, with onset from infancy to adulthood.,disease:Defects in MT-CO2 are associated with tumor formation.,function:Cytochrome c oxidase is the component of the respiratory chain that catalyzes the reduction of oxygen to water. Subunits 1-3 form the functional core of the enzyme complex. Subunit 2 transfers the electrons from cytochrome c via its binuclear copper A center to the bimetallic center of the catalytic subunit 1.,similarity:Belongs to the cytochrome c oxidase subunit 2 family.,

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**Subcellular Location :** Mitochondrion inner membrane ; Multi-pass membrane protein .

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**Expression :** Blood,Bone fossil,Bones,Breast cancer,Distant normal tissue,Endometrial ade

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## Products Images