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Anti-COX1 Antibody

Rabbit polyclonal antibody to COX1
Catalog # AP61200

Specification

Anti-COX1 Antibody - Product Information

Application	**WB**
Primary Accession	P00395
Other Accession	P00397
Reactivity	**Human, Mouse, Rat, Pig, Bovine, SARS, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**57041**

Anti-COX1 Antibody - Additional Information

Gene ID 4512

Other Names
COI; COXI; MTCO1; Cytochrome c oxidase subunit 1; Cytochrome c oxidase polypeptide I

Target/Specificity
Recognizes endogenous levels of COX1 protein.

Dilution
WB~~WB (1/500 - 1/1000)

Format
Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage
Store at -20 °C.Stable for 12 months from date of receipt

Anti-COX1 Antibody - Protein Information

Name MT-CO1

Synonyms COI, COXI, MTCO1

Function
Component of the cytochrome c oxidase, the last enzyme in the mitochondrial electron transport chain which drives oxidative phosphorylation. The respiratory chain contains 3 multisubunit complexes succinate dehydrogenase (complex II, CII), ubiquinol- cytochrome c oxidoreductase (cytochrome b-c1 complex, complex III, CIII) and cytochrome c oxidase (complex IV, CIV), that cooperate to transfer electrons derived from NADH and succinate to molecular oxygen, creating an electrochemical gradient over the inner membrane that drives transmembrane transport and the

ATP synthase. Cytochrome c oxidase is the component of the respiratory chain that catalyzes the reduction of oxygen to water. Electrons originating from reduced cytochrome c in the intermembrane space (IMS) are transferred via the dinuclear copper A center (CU(A)) of subunit 2 and heme A of subunit 1 to the active site in subunit 1, a binuclear center (BNC) formed by heme A3 and copper B (CU(B)). The BNC reduces molecular oxygen to 2 water molecules using 4 electrons from cytochrome c in the IMS and 4 protons from the mitochondrial matrix.

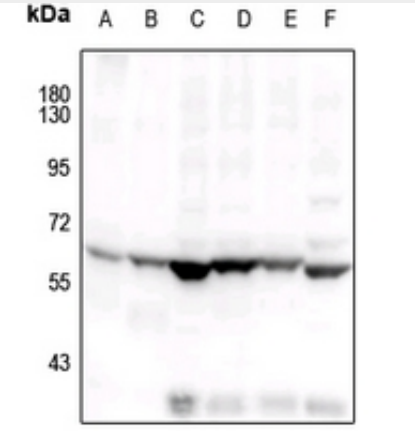
Cellular Location
Mitochondrion inner membrane; Multi-pass membrane protein

Anti-COX1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Anti-COX1 Antibody - Images



Western blot analysis of COX1 expression in mouse brain (A), rat skin (B), CT26 (C), C6 (D), Hela (E), A375 (F) whole cell lysates.

Anti-COX1 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human COX1. The exact sequence is proprietary.