

Anti-COX1 Antibody

Rabbit polyclonal antibody to COX1

Catalog # AP61200

Product Information

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

Additional Information

Gene ID	4512
Other Names	COI; COXI; MTCO1; Cytochrome c oxidase subunit 1; Cytochrome c oxidase polypeptide I
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human COX1. The exact sequence is proprietary.
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

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.

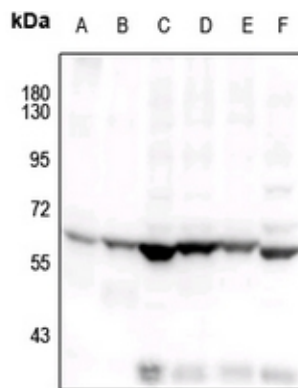
Cellular Location

Mitochondrion inner membrane; Multi-pass membrane protein

Background

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

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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.