

COX IV Rabbit Polyclonal Antibody

Catalog No: RCA54

Basic Information

Host species	Rabbit
Applications	WB, IHC
Species Cross-Reactivity	H, R, M
Specificity	Antibody can detects endogenous COX IV protein.
Recommended dilutions	WB: 1:1,000 IHC: 1:500-1,000 Optimal dilutions should be determined by the end user.

Applications

Formulation	PBS, pH 7.4, containing 0.02% sodium azide as Preservative and 50% Glycerol.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Concentration	1 mg/ml
Clonality	Polyclonal

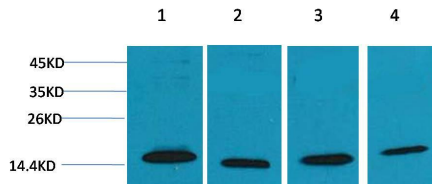
Background

Alternative Names	COX 4, Cox4a, COX4B, COXIV, Cytochrome c oxidase subunit 4 isoform 1 mitochondrial, MGC105470, dj857M17.2, Cytochrome c oxidase subunit IV
Observed band	15
Human Gene ID	1327
Human Swiss-Prot Number	P13073

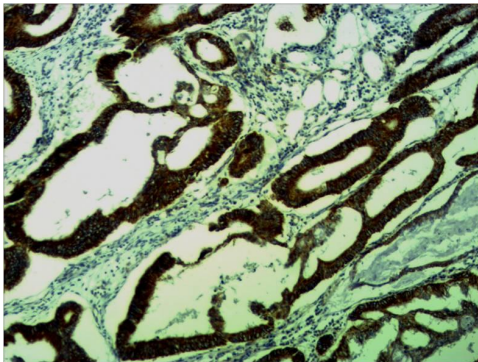
Background

The enzyme cytochrome c oxidase or Complex IV, EC 1.9.3.1) is a large transmembrane protein complex found in bacteria and the mitochondrion. It is the last enzyme in the respiratory electron transport chain of mitochondria (or bacteria) located in the mitochondrial (or bacterial) membrane. It receives an electron from each of four cytochrome c molecules, and transfers them to one oxygen molecule, converting molecular oxygen to two molecules of water. In the process, it binds four protons from the inner aqueous phase to make water, and in addition translocates four protons across the membrane, helping to establish a transmembrane difference of proton electrochemical potential that the ATP synthase then uses to synthesize ATP.

Selected Validation Data



Western blot analysis of 1) HeLa, 2)3T3, 3)Mouse Brain, 4) Rat Brain, with COX IV Rabbit pAb diluted at 1:2,000.



Immunohistochemical analysis of paraffin-embedded human Colon carcinoma using COX IV Rabbit pAb diluted at 1:500.