



# ELK Biotechnology

COX IV Rabbit pAb

Catalog NO.: EA150

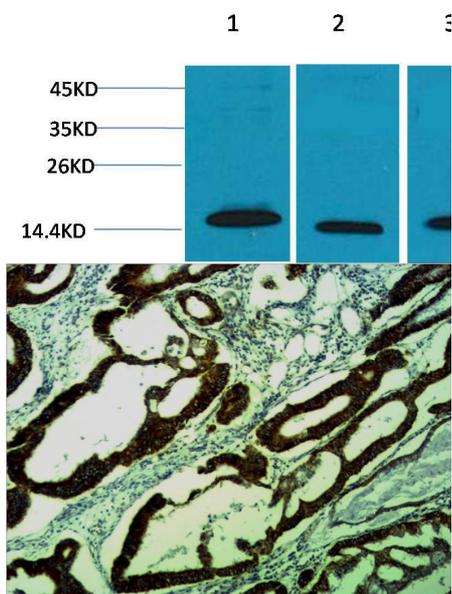
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## Overview

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Product name	COX IV Rabbit polyclonal antibody
Source	Rabbit
Applications	WB, IHC
Species reactivity	Human, Rat, Mouse
Recommended dilutions	<b>WesternBlot:1/1000</b> <b>Immunohistochemistry:1/500-1000</b> <b>NOTE: Optimal dilutions should be determined by the end user.</b>
Immunogen	Recombinant Protein
Species	Human
Storage	PBS with 0.02% sodium azide and 50% glycerol pH 7.4. Store at -20° C. Avoid repeated freeze-thaw cycles.
Isotype	IgG
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	<b>15kDa</b>
GenelD (Human)	1327
Human Swiss-Prot No.	P13073
Cellular localization	Membrane,Mitochondrion,Mitochondrion inner membrane
Alternative Names	COX 4, Cox4a, COX4B, COXIV, Cytochrome c oxidase subunit 4 isoform 1 mitochondrial, MGC105470, dj857M17.2, Cytochrome c oxidase subunit IV
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.



Western blot analysis of 1) HeLa, 2)3T3, 3)Mouse Brain, 4) Rat Brain, with COX IV Rabbit pAb EA150 diluted at 1:2,000.

Immunohistochemical analysis of paraffin-embedded human Colon carcinoma using COX IV (EA150) Rabbit pAb diluted at 1:500.