



# ELK Biotechnology

COX IV Mouse mAb

Catalog NO.: EM1032

For research use only.

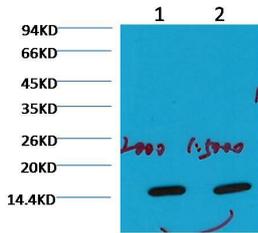
## Overview

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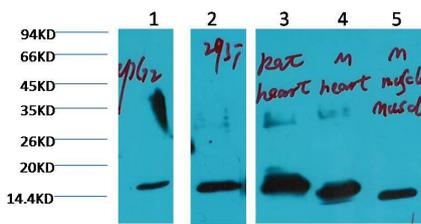
Product name	COX IV Mouse Monoclonal antibody
Source	Mouse
Applications	<b>WB IF</b>
Species reactivity	<b>Human Rat Mouse</b>
Recommended dilutions	<b>WesternBlot:1/1000-3000</b> <b>Immunofluorescence:1/100-200</b> <b>NOTE: Optimal dilutions should be determined by the end user.</b>
Immunogen	Recombinant 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	IgG1
Clonality	Monoclonal
Concentration	1 mg/ml
Observed band	<b>15kDa</b>
GeneID (Human)	1327
Human Swiss-Prot No.	P13073
Cellular localization	MembraneMitochondrionMitochondrion inner membrane
Alternative Names	COX 4 Cox4a COX4B COXIV Cytochrome c oxidase subunit 4 isoform mitochondrial MGC105470 dj857M17.2 Cytochrome c oxidase subunit IV
Background	The enzyme cytochrome c oxidase or Complex IV EC.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.

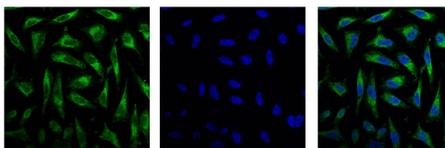
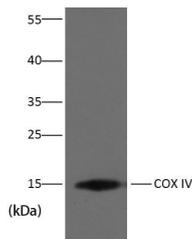
Western blot analysis of Hela with COX IV Mouse mAb diluted at 1) 1:2000 2) 1:5000



Western blot analysis of) HepG2 2) 293T 3) Rat Heart 4) Mouse Heart 5) Mouse Muscle tissue with COX IV Mouse mAb diluted at:3000.



Western blot analysis of extracts from Mouse Kidney using COX IV diluted at 1:5000.



IF analysis of Hela with EM1032(Left) and DAPI (Right) diluted at:100.