



COX IV Mouse Monoclonal Antibody (100A-6C8)

E12-046

Catalog Number: E12-046

Amount: 100µg/100µl

Clone Number: 100A-6C8

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.

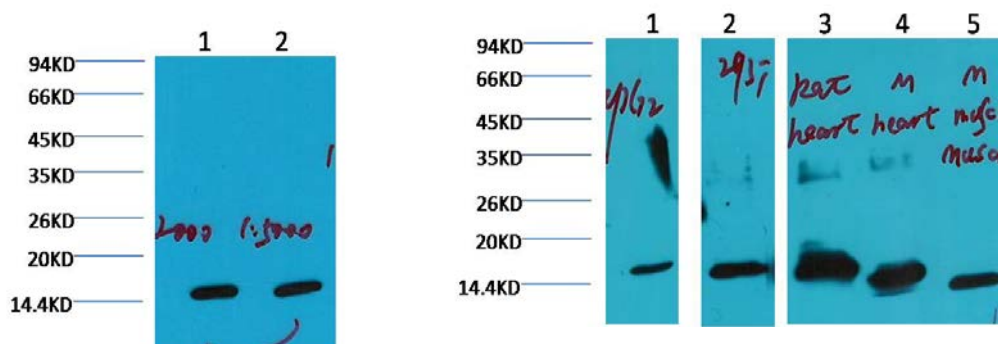
Form of Antibody: Mouse IgG1 in phosphate buffered saline (without Mg^{2+} and Ca^{2+}), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.

Storage/Stability: Store at -20°C/1 year

Specificity/Sensitivity: Antibody can detect endogenous COX IV protein.

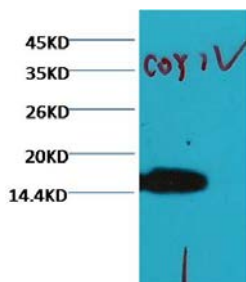
Reactivity: H,R,M

Applications: WB: 1:1,000-3,000



Western blot analysis of Hela with COX IV Mouse mAb (100A-6C8) diluted at 1) 1:2,000, 2) 1:5,000.

Western blot analysis of 1) HepG2, 2) 293T, 3) Rat Heart, 4) Mouse Heart, 5) Mouse Muscle tissue with COX IV Mouse mAb (100A-6C8) diluted at 1:3,000.



Western blot analysis of Hela with COX IV Mouse mAb (100A-6C8) diluted at 1:3,000.

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