

Product name:	COX IV Mouse Monoclonal Antibody
Cat number:	MAB- 94707
Conjugate:	Unconjugated
Size:	100 ug
Clone:	20E8C12
Concentration:	1mg/ml
Host:	Ms
Isotype:	IgG1
Immunogen:	Recombinant protein containing a sequence of human COX IV
Reactivity:	Hu
Applications:	WesternBlot: 1:1000 Immunofluorescence: 1:100-1:200
Molecular Weight:	15kDa
Purification:	Aff. Pur
Form:	Liquid
Buffer:	PBS with 0.02% sodium azide and 50% glycerol pH 7.4.
Storage:	Store at -20°C. Avoid repeated freeze-thaw cycles.
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.