

# COX IV Mouse Monoclonal Antibody(TDY100A-6C8)

## Catalog No.: RCA25

### Basic Information

#### Information

Reactivity	H,M,R
Immunogen	Recombinant Protein
Host	Mouse
Isotype	IgG1
Storage Buffer & Condition	1mg/ml in PBS, pH 7.4, containing 0.02% sodium azide and 50% glycerol.
Observed MW	15KD

#### Applications

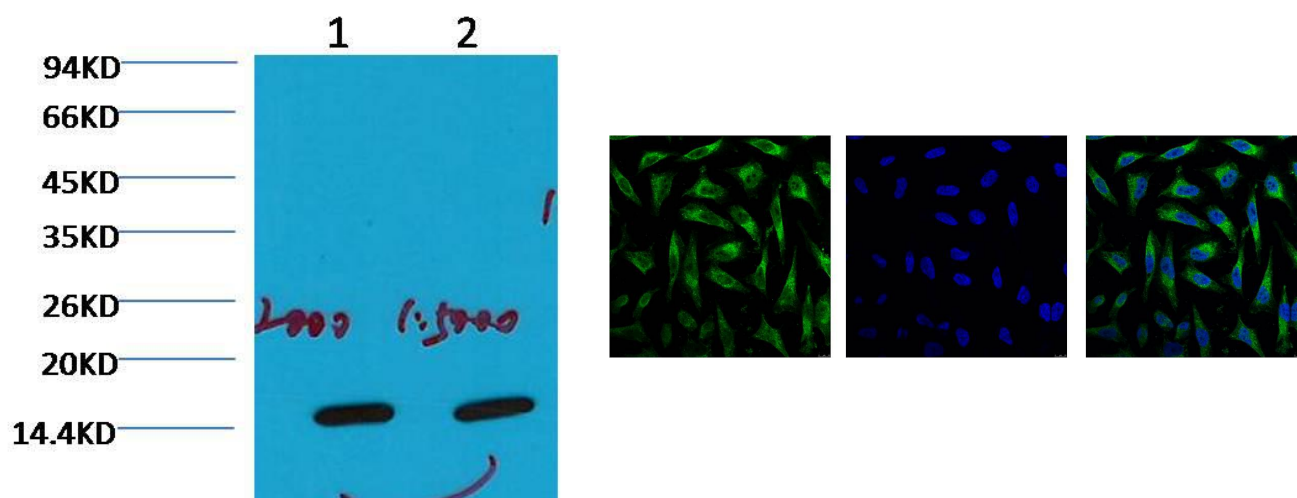
#### Recommended Dilution

WB	1:1,000-3,000
IF	1:100-200

#### Preparation & Storage

Storage	Store at -20°C. Stable for one year from the date of shipment.
Shipping	Bule Ice

## Experimental Data



Western blot analysis of HeLa with COX IV  
Mouse mAb diluted at 1)1:2,000 2)1:5,000

IF analysis of HeLa with COX IV Mouse  
mAb(Left) and DAPI (Right) diluted at 1:100.

## 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.