

## COX IV Rabbit Polyclonal Antibody

Catalog	TDY327C	TDY327F
Quantity	50 $\mu$ L	100 $\mu$ L

Tel: 010-82908854  
Free: 400-0620-621  
Web: www.tdybio.com

**For research use only.**

Applications	Species Cross-Reactivity	Molecular Weight	Isotype
WB, IHC	H, R, M	15KD	IgG

**Storage Buffer & Condition:** PBS, pH 7.4, containing 0.02% **sodium azide** as Preservative and 50% Glycerol.  
Store at **-20°C**. **Do not aliquot the antibody.**

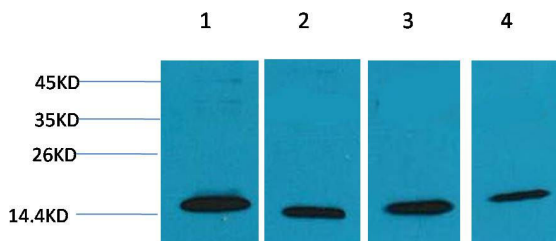
**Recommended dilutions:** WB: 1:1,000 IHC: 1:500-1,000

**Optimal dilutions should be determined by the end user.**

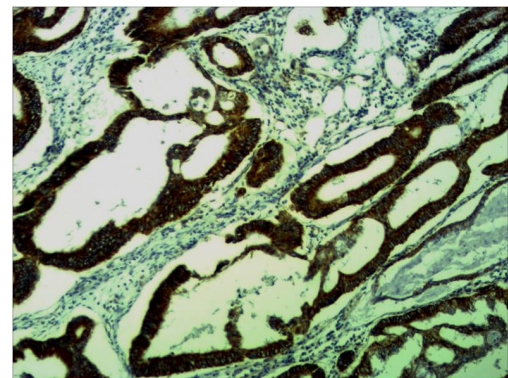
**Specificity:** Antibody can detect endogenous COX IV protein.

**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 TDY327 diluted at 1:2,000.



Immunohistochemical analysis of paraffin-embedded human Colon carcinoma using COX IV (TDY327) Rabbit pAb diluted at 1:500.