

## Cox-4 Polyclonal Antibody

<b>CATALOG NO:</b>	3638-30T	30 µg (Trial size)
	3638-100	100 µg
<b>HOST:</b>	Rabbit	
<b>IMMUNOGEN:</b>	Synthetic peptide surrounding amino acid 32 of human Cox IV (ID# BV-101)	
<b>SPECIES REACTIVITY:</b>	Human, Mouse, Rat	

### FORMULATION:

0.2 mg/ml affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 30% glycerol, 0.5% BSA, and 0.01% thimerosal.

### STORAGE CONDITIONS:

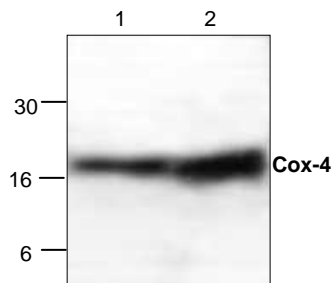
Store at -20°C. For long term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

### DESCRIPTION:

Cytochrome *c* oxidase (COX) is a 13-subunit complex spanning the inner mitochondrial membrane and responsible for the terminal reduction of dioxygen to water in the electron transport chain. The three core catalytic units COX-1, -2, -3 are trans-membrane proteins encoded by the mitochondrial genome, whereas the remaining 10 subunits are nuclear encoded and expressed in a tissue-specific manner. The expression of nuclear and mitochondrial subunits of the mitochondrial respiratory chain is thought to be highly coordinated. Cox-4 is believed to regulate COX activity according to the extramitochondrial ATP/ADP ratio.

### APPLICATION:

The antibody can be used for Western blotting (0.5-4 µg/ml) and in Immunohistochemistry (2.5 µg/ml). However, the optimal concentrations should be determined individually.



**Cat. # 3638-100**  
Western blot analysis of Cox-4 expression in Jurkat cell lysate (Lane 1), and mouse small intestine tissue lysate (Lane 2)

**FOR RESEARCH USE ONLY! Not to be used on humans.**

### RELATED PRODUCTS:

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- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

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- Nuclear/Cytosol Fractionation Kit
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- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

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