

# Cox-4 Polyclonal Antibody

<b>CATALOG #:</b>	3638-100
<b>AMOUNT:</b>	100 µg
<b>LOT #:</b>	_____
<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:

100 µg (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:

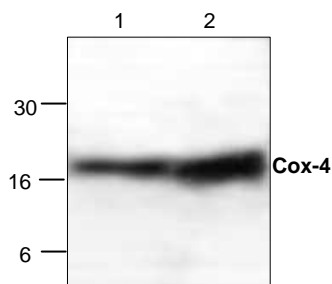
Store at -20°C. For long term storage, aliquot and freeze at -70°C. Avoid repeated freeze/defrost cycles.

## 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). Based on researchers' feedback, the antibody also works well in immunohistochemistry (10-20 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)

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