

Product datasheet for **AP00293PU-N**

COX4 (COX4I1) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	Western Blot: 0.5-4 µg/ml. Immunohistochemistry: 10-20 µg/ml.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide surrounding amino acid 32 of human Cox IV.
Specificity:	The antibody detects 36 kDa annexin VIII. The ~28-30 kDa cleavage fragments can also be detected in Jurkat cell lysate. Blocking peptide is available separately (AP00292CP-N).
Formulation:	PBS, pH 7.2 containing 30% glycerol, 0.5% BSA as stabilizer and 0.01% thimerosal as preservative. State: Aff - Purified State: Liquid purified Ig fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at -20°C or for long term storage (in aliquots) at -70°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	cytochrome c oxidase subunit 4I1
Database Link:	Entrez Gene 1327 Human P13073



[View online »](#)

Background: 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.

Synonyms: Cytochrome c oxidase polypeptide IV, COX IV-1, COX4I1, COX4

Protein Families: Transmembrane

Protein Pathways: Alzheimer's disease, Cardiac muscle contraction, Huntington's disease, Metabolic pathways, Oxidative phosphorylation, Parkinson's disease

Product images:

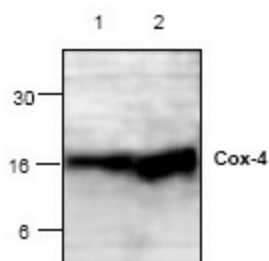


Figure 1. Western blot analysis of Cox-4 expression in Jurkat cell lysate (Lane 1), and mouse small intestine tissue lysate (Lane 2).