

## Product datasheet for **TA323193**

### COX10 Rabbit Polyclonal Antibody

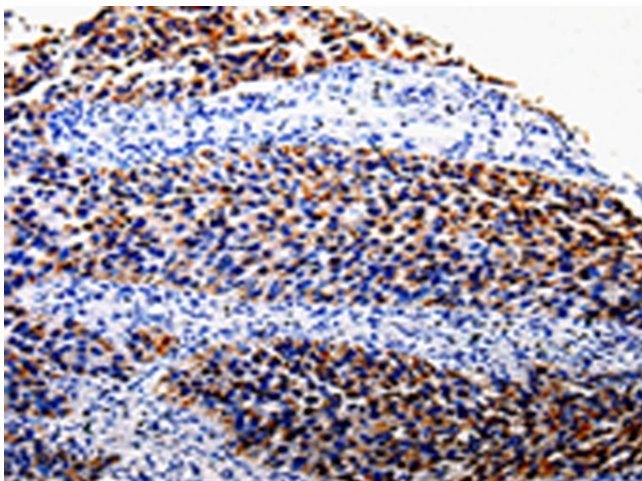
#### Product data:

Product Type:	Primary Antibodies
Applications:	IHC
Recommended Dilution:	IHC: 50-200 Positive control: Human renal cancer Predicted cell location: Cytoplasm
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Fusion protein corresponding to N terminal 300 amino acids of Human COX10 homolog, cytochrome c oxidase assembly protein, heme A: farnesyltransferase
Formulation:	PBS pH7.3, 0.05% NaN <sub>3</sub> , 50% glycerol
Concentration:	lot specific
Purification:	Antigen affinity purification
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	COX10 heme A:farnesyltransferase cytochrome c oxidase assembly factor
Database Link:	<a href="#">NP_001294</a> <a href="#">Entrez Gene 1352 Human</a> <a href="#">Q12887</a>



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- Background:** Cytochrome c oxidase (COX); the terminal component of the mitochondrial respiratory chain; catalyzes the electron transfer from reduced cytochrome c to oxygen. This component is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in electron transfer; and the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes heme A:farnesyltransferase; which is not a structural subunit but required for the expression of functional COX and functions in the maturation of the heme A prosthetic group of COX. This protein is predicted to contain 7-9 transmembrane domains localized in the mitochondrial inner membrane. A gene mutation; which results in the substitution of a lysine for an asparagine (N204K); is identified to be responsible for cytochrome c oxidase deficiency. In addition; this gene is disrupted in patients with CMT1A (Charcot-Marie-Tooth type 1A) duplication and with HNPP (hereditary neuropathy with liability to pressure palsies) deletion.
- Synonyms:** COX10 homolog; cytochrome c oxidase assembly protein; cytochrome c oxidase subunit X; heme A: farnesyltransferase; heme A:farnesyltransferase; heme A: farnesyltransferase (yeast)
- Protein Families:** Druggable Genome, Transmembrane
- Protein Pathways:** Metabolic pathways, Oxidative phosphorylation, Porphyrin and chlorophyll metabolism

**Product images:**

Immunohistochemistry of paraffin-embedded Human renal cancer tissue using TA323193 (COX10 Antibody) at dilution 1/100. (Original magnification: ×200)