OriGene Technologies, Inc.
9620 Medical Center Drive, Ste 200
Rockville, MD 20850, US
Phone: +1-888-267-4436
https://www.origene.com
techsupport@origene.com
EU: info-de@origene.com
CN: techsupport@origene.cn

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% NaN3, 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:	NP_001294 Entrez Gene 1352 Human Q12887

View online »

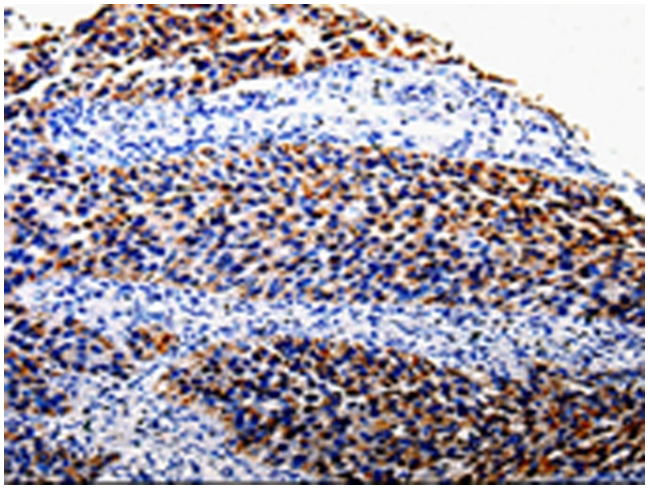
Background: Cytochrome c oxidase (COX); the terminal component of the mitochondrial respiratory chain; catalyzes the electron transfer from reduced cytochrome c to oxygen. This component is a heteromeric complex consisting of 3 catalytic subunits encoded by mitochondrial genes and multiple structural 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)