COX10 Antibody

Catalog No: #35579

Description



Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Product NameCOX10 AntibodyHost SpeciesRabitClonaliyPolyclonalPurificationAntigen affinity purification.ApplicationsHCSpecies ReactivityHuSpecificityTe antibody detects endogenous levels of total COX10 protein.Immunogen TypeRecombinant ProteinImmunogen DescriptionFusion protein corresponding to a region derived from internal residues of human COX10 homolog. tochrome coxidase assembly protein, heme A: farnesyltransferaseTarget NameCOX10 COX10 homolog; cytochrome coxidase assembly proteinAccession No.COX10; COX10 homolog; cytochrome coxidase assembly proteinUniprotC0X87GenelD1352;Concentration1.4mg/mlFormulationRabit Ig in pH7.4 PBS, 0.05% NaN3, 40% Glycerol.StorageStorage*Com		
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	Storage	Store at -20°C

## **Application Details**

Immunohistochemistry: 1:50-1:200

## Images



Immunohistochemical analysis of paraffin-embedded Human renal cancer tissue using #35579 at dilution 1/100.

## 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.

Note: This product is for in vitro research use only