



COX10 rabbit pAb

Cat No.:ES4780

For research use only

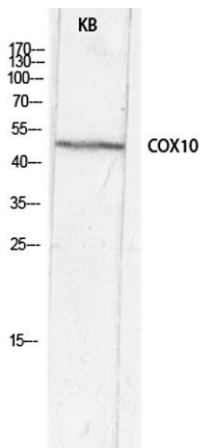
Overview

Product Name	COX10 rabbit pAb
Host species	Rabbit
Applications	WB;ELISA
Species Cross-Reactivity	Human;Rat;Mouse;
Recommended dilutions	Western Blot: 1/500 - 1/2000. ELISA: 1/10000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human COX10. AA range:98-147
Specificity	COX10 Polyclonal Antibody detects endogenous levels of COX10 protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Protoheme IX farnesyltransferase mitochondrial
Gene Name	COX10
Cellular localization	Mitochondrion membrane; Multi-pass membrane protein.
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	49kD
Human Gene ID	1352
Human Swiss-Prot Number	Q12887
Alternative Names	COX10; Protoheme IX farnesyltransferase; mitochondrial; Heme O synthase
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

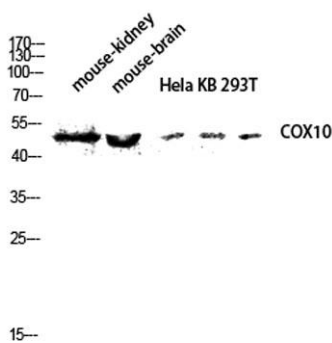




subunits encoded by mitochondrial genes and multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in electron transfer, and the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes heme A:farnesyltransferase, 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 lys



Western blot analysis of KB lysis using COX10 antibody. Antibody was diluted at 1:1000

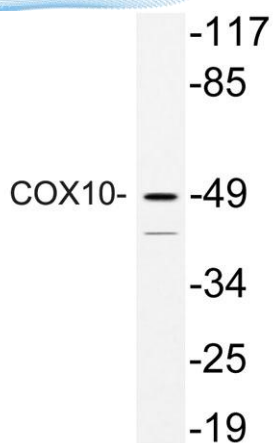


Western blot analysis of mouse-kidney mouse-brain HeLa KB 293T lysis using COX10 antibody. Antibody was diluted at 1:1000





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Western blot analysis of lysate from HeLa cells, using COX10 antibody.



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