



COX17 rabbit pAb

Cat No.:ES2033

For research use only

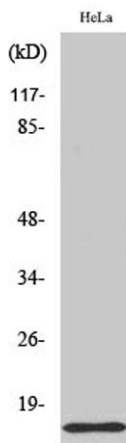
Overview

| | |
|---------------------------------|---|
| Product Name | COX17 rabbit pAb |
| Host species | Rabbit |
| Applications | WB;IHC;IF;ELISA |
| Species Cross-Reactivity | Human;Mouse;Rat |
| Recommended dilutions | Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications. |
| Immunogen | The antiserum was produced against synthesized peptide derived from human COX17. AA range:1-50 |
| Specificity | COX17 Polyclonal Antibody detects endogenous levels of COX17 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 | Cytochrome c oxidase copper chaperone |
| Gene Name | COX17 |
| Cellular localization | Mitochondrion intermembrane space . Cytoplasm . |
| Purification | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |
| Clonality | Polyclonal |
| Concentration | 1 mg/ml |
| Observed band | 7kD |
| Human Gene ID | 10063 |
| Human Swiss-Prot Number | Q14061 |
| Alternative Names | COX17; Cytochrome c oxidase copper chaperone |
| 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 |



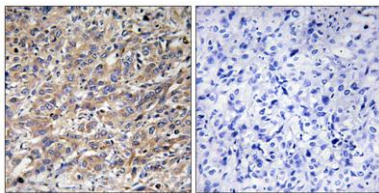


multiple structural subunits encoded by nuclear genes. The mitochondrially-encoded subunits function in electron transfer, and the nuclear-encoded subunits may function in the regulation and assembly of the complex. This nuclear gene encodes a protein which is not a structural subunit, but may be involved in the recruitment of copper to mitochondria for incorporation into the COX apoenzyme. This protein shares 92% amino acid sequence identity with mouse and rat Cox17 proteins. This gene is no longer considered to be a candidate gene for COX deficiency. A pseudogene COX17P has been found on chromosome 13. [provi



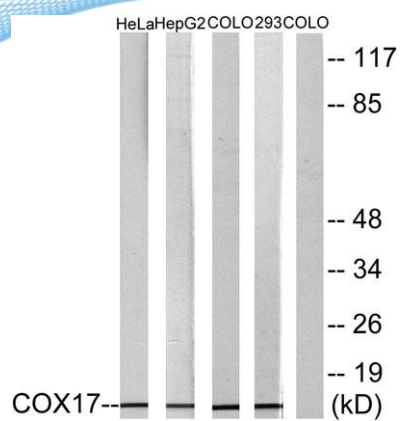
Western Blot analysis of various cells using COX17 Polyclonal Antibody

Immunohistochemistry analysis of paraffin-embedded human liver carcinoma tissue, using COX17 Antibody. The picture on the right is blocked with the synthesized peptide.





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Western blot analysis of lysates from HeLa, HepG2, COLO, and 293 cells, using COX17 Antibody. The lane on the right is blocked with the synthesized peptide.



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