

## Rabbit anti-Human COX10 Polyclonal Antibody | anti-COX10 antibody

COX10 Polyclonal Antibody

|                               |                       |                            |                                            |
|-------------------------------|-----------------------|----------------------------|--------------------------------------------|
| CATALOG #<br><b>AAA173719</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------|--------------------------------------------|

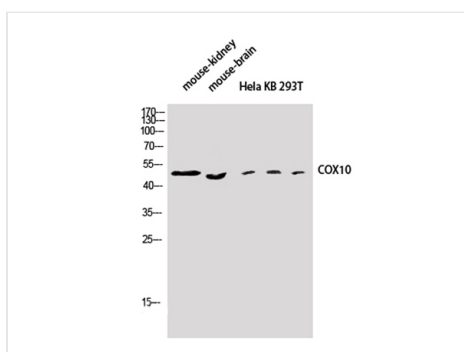
### PRODUCT SYNONYMS

COX10; Polyclonal Antibody; COX10 Polyclonal Antibody; Protoheme IX farnesyltransferase; mitochondrial; Heme O synthase; anti-COX10 antibody

### PRODUCT SPECIFICATIONS

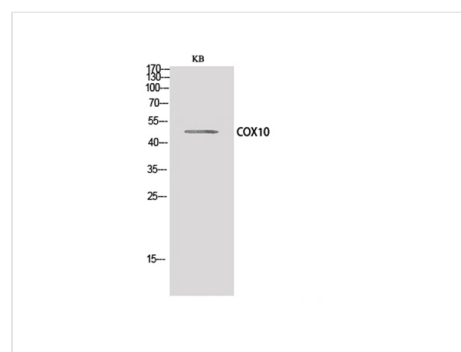
|                                                 |                                                                      |
|-------------------------------------------------|----------------------------------------------------------------------|
| Host                                            | Rabbit                                                               |
| Reactivity                                      | Human                                                                |
| Clonality                                       | Polyclonal                                                           |
| Isotype                                         | IgG                                                                  |
| Purity/Purification                             | Affinity Purification                                                |
| Concentration                                   | 1mg/mL (varies by lot)                                               |
| Sequence Length                                 | 443                                                                  |
| Applicable Applications for anti-COX10 antibody | ELISA, WB (Western Blot)                                             |
| Immunogen                                       | Synthesized peptide derived from the Internal region of human COX10. |
| Buffer                                          | PBS with 0.02% sodium azide, 0.5% BSA and 50% glycerol pH 7.4.       |
| Preparation and Storage                         | Store at -20 degree C. Avoid freeze / thaw cycles.                   |

### IMAGES



#### WB (Western Blot)

Western Blot analysis of Mouse kidney, Mouse brain, Hela, KB, 293T using COX10 Polyclonal Antibody at dilution of 1:1000.



#### WB (Western Blot)

Western Blot analysis of KB cells using COX10 Polyclonal Antibody at dilution of 1:1000.

ADDITIONAL INFORMATION

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|-----------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-COX10 antibody | 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. |
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NCBI AND UNIPROT INFORMATION

|                                  |                                                                        |
|----------------------------------|------------------------------------------------------------------------|
| NCBI GI #                        | 17921982                                                               |
| NCBI GeneID                      | 1352                                                                   |
| NCBI Accession #                 | NP_001294.2                                                            |
| NCBI GenBank Nucleotide #        | NM_001303.3                                                            |
| UniProt Accession #              | Q12887; O15334; Q969F7; B2R6U5; B4DJ50                                 |
| Molecular Weight                 | Calculated Molecular Weight: 49kDa<br>Observed Molecular Weight: 49kDa |
| NCBI Official Full Name          | protoheme IX farnesyltransferase, mitochondrial                        |
| NCBI Official Synonym Full Names | COX10, heme A:farnesyltransferase cytochrome c oxidase assembly factor |
| NCBI Official Symbol             | COX10                                                                  |
| NCBI Protein Information         | protoheme IX farnesyltransferase, mitochondrial                        |
| UniProt Protein Name             | Protoheme IX farnesyltransferase, mitochondrial                        |
| UniProt Gene Name                | COX10                                                                  |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.