



Anti-COQ2 monoclonal antibody (DCABH-11095)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

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| Antigen Description | CoQ (ubiquinone) serves as a redox carrier in the mitochondrial respiratory chain and is a lipid-soluble antioxidant. COQ2, or parahydroxybenzoate-polyprenyltransferase (EC 2.5.1.39), catalyzes one of the final reactions in the biosynthesis of CoQ, the prenylation of parahydroxybenzoate with an all-trans polyprenyl group (Forsgren et al., 2004 [PubMed 15153069]). |
| Immunogen | A synthetic peptide of human COQ2 is used for rabbit immunization. |
| Isotype | IgG |
| Source/Host | Rabbit |
| Species Reactivity | Human |
| Purification | Protein A |
| Conjugate | Unconjugated |
| Applications | Western Blot (Transfected lysate); ELISA |
| Buffer | In 1x PBS, pH 7.4 |
| Preservative | None |
| Storage | Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing. |

GENE INFORMATION

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| Gene Name | COQ2 coenzyme Q2 homolog, prenyltransferase (yeast) [Homo sapiens] |
| Official Symbol | COQ2 |
| Synonyms | COQ2; coenzyme Q2 homolog, prenyltransferase (yeast); 4-hydroxybenzoate polyprenyltransferase, mitochondrial; 4 hydroxybenzoate polyprenyltransferase; CL640; FLJ26072; hCOQ2; COQ2 homolog; PHB:polyprenyltransferase; para-hydroxybenzoate-polyprenyltransferase, mitochondrial; para-hydroxybenzoate--polyprenyltransferase, mitochondrial; FLJ13014; |
| Entrez Gene ID | 27235 |
| Protein Refseq | NP_056512 |
| UniProt ID | Q96H96 |
| Chromosome Location | 4q21.23 |
| Pathway | Metabolic pathways, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; Mitochondrial Protein Import, organism-specific biosystem; Ubiquinone and other terpenoid-quinone biosynthesis, organism-specific biosystem; Ubiquinone and other terpenoid-quinone biosynthesis, conserved biosystem; ubiquinol-1 biosynthesis (eukaryotic), conserved biosystem. |
| Function | 4-hydroxybenzoate decaprenyltransferase activity; 4-hydroxybenzoate nonaprenyltransferase activity; prenyltransferase activity; transferase activity; |