



Anti-COX11 monoclonal antibody (DCABH-11102)

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

PRODUCT INFORMATION

Antigen Description	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 a heme A biosynthetic enzyme involved in COX formation, according to the yeast mutant studies. However, the studies in <i>Rhodobacter sphaeroides</i> suggest that this gene is not required for heme A biosynthesis, but required for stable formation of the Cu(B) and magnesium centers of COX. This human protein is predicted to contain a transmembrane domain localized in the mitochondrial inner membrane. Multiple transcript variants encoding different isoforms have been found for this gene. A related pseudogene has been found on chromosome 6.
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Immunogen	A synthetic peptide of human COX11 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

Gene Name	COX11 COX11 cytochrome c oxidase assembly homolog (yeast) [Homo sapiens]
Official Symbol	COX11
Synonyms	COX11; COX11 cytochrome c oxidase assembly homolog (yeast); COX11 (yeast) homolog, cytochrome c oxidase assembly protein; cytochrome c oxidase assembly protein COX11, mitochondrial; COX11P; cytochrome c oxidase assembly protein COX11; cytochrome c oxidase subunit 11; COX11 homolog, cytochrome c oxidase assembly protein;
Entrez Gene ID	1353
Protein Refseq	NP_001156333
UniProt ID	B4DEY8
Chromosome Location	17q22
Pathway	Cytochrome c oxidase, organism-specific biosystem; Cytochrome c oxidase, conserved biosystem; Electron Transport Chain, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Oxidative phosphorylation, organism-specific biosystem; Oxidative phosphorylation, conserved biosystem.
Function	copper ion binding; cytochrome-c oxidase activity; electron carrier activity;