



Anti-COX7A2L monoclonal antibody (DCABH-11106)

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 similar to polypeptides 1 and 2 of subunit VIIa in the C-terminal region, and also highly similar to the mouse Sig81 protein sequence. This gene is expressed in all tissues, and upregulated in a breast cancer cell line after estrogen treatment. It is possible that this gene represents a regulatory subunit of COX and mediates the higher level of energy production in target cells by estrogen.
Immunogen	A synthetic peptide of human COX7A2L 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	COX7A2L cytochrome c oxidase subunit VIIa polypeptide 2 like [Homo sapiens]
Official Symbol	COX7A2L
Synonyms	COX7A2L; cytochrome c oxidase subunit VIIa polypeptide 2 like; cytochrome c oxidase subunit 7A-related protein, mitochondrial; COX7AR; COX7RP; EB1; SIG81; COX7a-related protein; estrogen receptor binding CpG island; cytochrome c oxidase subunit VII-related protein; cytochrome c oxidase subunit VIIa-related protein;
Entrez Gene ID	9167
Protein Refseq	NP_004709
UniProt ID	O14548
Chromosome Location	2p21
Pathway	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Cardiac muscle contraction, organism-specific biosystem; Cardiac muscle contraction, conserved biosystem; Cytochrome c oxidase, organism-specific biosystem; Cytochrome c oxidase, conserved biosystem; Electron Transport Chain, organism-specific biosystem;
Function	cytochrome-c oxidase activity; electron carrier activity;