



Anti-COX4I1 monoclonal antibody, clone 21H9E23D23 (DCABH-265)

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

PRODUCT INFORMATION

Product Overview	Mouse monoclonal to COX4 + COX4L2
Antigen Description	Cytochrome C Oxidase is located in the inner mitochondrial membrane and is the terminal enzyme complex of the mitochondrial electron transport chain. It collects electrons that are transferred from reduced cytochrome C and donates them to molecular oxygen, which is then reduced to water. It is composed of cytochrome A and cytochrome B, two copper atoms, and 13 different protein subunits, three of which are encoded by the mitochondrial DNA and ten others by nuclear DNA (mammals).
Immunogen	Full length native Bovine protein, COX4 + COX4L2.
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Cow, Human, Zebrafish
Clone	21H9E23D23
Purity	IgG fraction
Purification	This antibody was produced in vitro using hybridomas grown in serum-free medium, and then purified by biochemical fractionation. This antibody was judged as near homogeneity by SDS PAGE.
Conjugate	Unconjugated
Applications	IHC-Fr, WB, Flow Cyt, ICC/IF, IHC-P
Positive Control	Isolated mitochondria from Human heart, Bovine heart and HepG2 cells. Human skeletal muscle (frozen sections). Cultured Human embryonic lung derived fibroblasts (strain MRC5; fixed and permeabilized). Human colon tissue sections. HeLa cells.
Format	Liquid
Size	100 µg
Buffer	Preservative: 0.02% Sodium azide; Constituent: HBS
Storage	Store at +4°C. Do not freeze.

GENE INFORMATION

Gene Name	COX4I1 cytochrome c oxidase subunit IV isoform 1 [Bos taurus]
Official Symbol	COX4I1
Synonyms	COX4I1; cytochrome c oxidase subunit IV isoform 1; cytochrome c oxidase subunit 4 isoform 1, mitochondrial; COX IV-1; cytochrome c oxydase subunit 4; cytochrome c oxidase polypeptide IV; COX4;
Entrez Gene ID	281090
mRNA Refseq	NM_001001439
Protein Refseq	NP_001001439
UniProt ID	P00423
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;