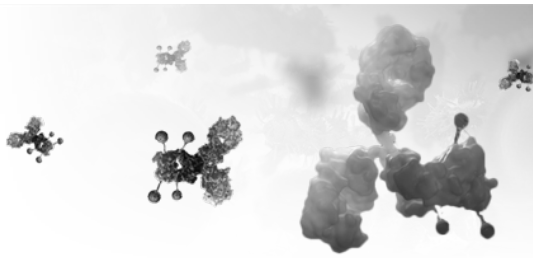

Mouse anti-Human COX17 monoclonal antibody, clone 5H3 (CABT-B10023)

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

PRODUCT INFORMATION

Immunogen	COX17 (NP_005685,2a.a. ~ 63 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Isotype	IgG2b
Source/Host	Mouse
Species Reactivity	Human
Clone	5H3
Conjugate	Unconjugated
Applications	WB, IHC, sELISA, ELISA
Sequence Similarities	MPGLVDSNPAPPESQEKKPLKPCCACPETKKARDACIIEKGEEHCGHLIEAHKECMRALG FKI
Format	Liquid
Buffer	In 1x PBS, pH 7.2
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

BACKGROUND

Introduction	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

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	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 involved in the recruitment of copper to mitochondria for incorporation into the COX apoenzyme. This protein shares 92% amino acid sequence identity with mouse and rat Cox17 proteins. This gene is no longer considered to be a candidate gene for COX deficiency. A pseudogene COX17P has been found on chromosome 13. [provided by RefSeq, Jul 2008]
Keywords	COX17; COX17 cytochrome c oxidase copper chaperone; cytochrome c oxidase copper chaperone; cytochrome c oxidase 17 copper chaperone; cytochrome c oxidase assembly homolog 17; COX17 cytochrome c oxidase assembly homolog; human homolog of yeast mitochondrial copper recruitment;

GENE INFORMATION

Entrez Gene ID	10063
UniProt ID	Q14061
Pathway	Cytochrome c oxidase, organism-specific biosystem; Cytochrome c oxidase, conserved biosystem; Electron Transport Chain, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism of proteins, organism-specific biosystem; Mitochondrial Protein Import, organism-specific biosystem; Oxidative phosphorylation, organism-specific biosystem;
Function	copper chaperone activity; copper ion binding; enzyme activator activity; metal ion binding;

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