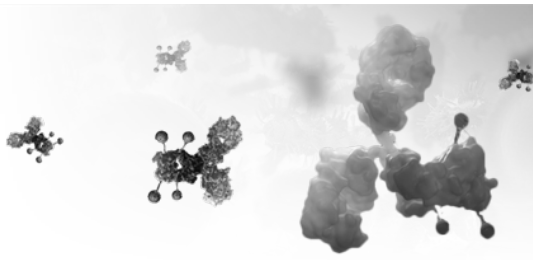

Mouse anti-Human COQ2 monoclonal antibody, clone 3C5 (CABT-B10020)

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

PRODUCT INFORMATION

Immunogen	COQ2 (NP_056512, 84 a.a. ~ 133 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Human
Clone	3C5
Conjugate	Unconjugated
Applications	WB,ELISA
Sequence Similarities	AAGAPHGGDLQPPACPEPRGRQLSLSAAAVVDSAPRPLQPYLRLMRLDK*
Format	Liquid
Size	100 µg
Buffer	In 1x PBS, pH 7.2
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

BACKGROUND

Introduction	This gene encodes an enzyme that functions in the final steps in the biosynthesis of CoQ (ubiquinone), a redox carrier in the mitochondrial respiratory chain and a lipid-soluble antioxidant. This enzyme, which is part of the coenzyme Q10 pathway, catalyzes the

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	prenylation of parahydroxybenzoate with an all-trans polyprenyl group. Mutations in this gene cause coenzyme Q10 deficiency, a mitochondrial encephalomyopathy, and also COQ2 nephropathy, an inherited form of mitochondriopathy with primary renal involvement. [provided by RefSeq, Oct 2009]
Keywords	COQ2; coenzyme Q2 4-hydroxybenzoate polyprenyltransferase; MSA1; CL640; COQ10D1; 4-hydroxybenzoate polyprenyltransferase, mitochondrial; PHB:polyprenyltransferase; coenzyme Q2 homolog, prenyltransferase; para-hydroxybenzoate-polyprenyltransferase, mitochondrial;

GENE INFORMATION

Entrez Gene ID	27235
UniProt ID	Q96H96
Pathway	Metabolic pathways, organism-specific biosystem; Ubiquinone and other terpenoid-quinone biosynthesis, organism-specific biosystem; Ubiquinone and other terpenoid-quinone biosynthesis, conserved biosystem; ubiquinone-10 biosynthesis (eukaryotic), conserved biosystem
Function	4-hydroxybenzoate decaprenyltransferase activity; 4-hydroxybenzoate nonaprenyltransferase activity; prenyltransferase activity; transferase activity

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