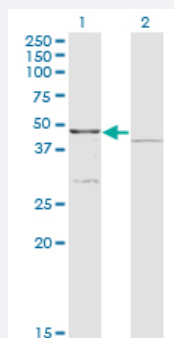


COQ3 monoclonal antibody (M01), clone 6D5

Catalog # H00051805-M01

Size 100 ug

Applications

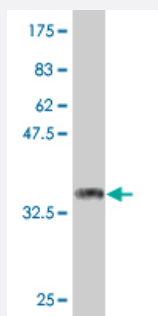


Western Blot (Transfected lysate)

Western Blot analysis of COQ3 expression in transfected 293T cell line by COQ3 monoclonal antibody (M01), clone 6D5.

Lane 1: COQ3 transfected lysate(41 KDa).

Lane 2: Non-transfected lysate.



Western Blot detection against Immunogen (36.41 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a partial recombinant COQ3.
Immunogen	COQ3 (NP_059117, 273 a.a. ~ 369 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	IVPKGHTWEK FVSPETLESINGLSVQTVVGMLYNPFSGYWHWSENSTLNYYAAHAVKSRVQE HPASAEFVLKGETEELQANACTNPAVHEKLLK
Host	Mouse
Reactivity	Human

Interspecies Antigen Sequence	Mouse (73); Rat (81)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.41 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Transfected lysate)

Western Blot analysis of COQ3 expression in transfected 293T cell line by COQ3 monoclonal antibody (M01), clone 6D5.

Lane 1: COQ3 transfected lysate(41 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

- Western Blot (Recombinant protein)

[Protocol Download](#)

- ELISA

Gene Info — COQ3

Entrez GeneID	51805
GeneBank Accession#	NM_017421
Protein Accession#	NP_059117
Gene Name	COQ3
Gene Alias	UG0215E05, bA9819.1
Gene Description	coenzyme Q3 homolog, methyltransferase (S. cerevisiae)
Omim ID	605196
Gene Ontology	Hyperlink

Gene Summary

Ubiquinone, also known as coenzyme Q, or Q, is a critical component of the electron transport pathways of both eukaryotes and prokaryotes (Jonassen and Clarke, 2000 [PubMed 10777520]). This lipid consists of a hydrophobic isoprenoid tail and a quinone head group. The tail varies in length depending on the organism, but its purpose is to anchor coenzyme Q to the membrane. The quinone head group is responsible for the activity of coenzyme Q in the respiratory chain. The *S. cerevisiae* COQ3 gene encodes an O-methyltransferase required for 2 steps in the biosynthetic pathway of coenzyme Q. This enzyme methylates an early coenzyme Q intermediate, 3,4-dihydroxy-5-polyprenylbenzoic acid, as well as the final intermediate in the pathway, converting demethyl-ubiquinone to coenzyme Q. The COQ3 gene product is also capable of methylating the distinct prokaryotic early intermediate 2-hydroxy-6-polyprenyl phenol.[supplied by OMIM]

Other Designations

OTTHUMP00000016892|methyltransferase COQ3

Pathway

- [Metabolic pathways](#)
- [Ubiquinone and other terpenoid-quinone biosynthesis](#)

Disease

- [Spinal Dysraphism](#)