

DNAxPAb

Hard-to-Find
Antibody

COQ3 DNAxPab

Catalog # H00051805-W01P

Size 200 ug

Specification

Product Description	Rabbit polyclonal antibody raised against a full-length human COQ3 DNA using DNAx™ Immune technology.
Technology	DNAx™ Immune
Immunogen	Full-length human DNA
Sequence	MWSGRKLGS SGGWFLRVLGPGGCNTKAARPLISSAVYVKNQLSGTLQIKPGVFNEYRTWFKSYR TIFSCLNRIKSF RYPWARLYSTSQT TVDSGEVKTF LALAHKWWDEQGVYAPLHSMNDLRVPFIRD NLLKTIPNHQPGKPLLGMKILDVGCGGGLL TEPLGRLGASVIGIDPVDENIKTAQCHKSFDPVLDKR IEYRVCSLEEMEETAETFD AVVASEVVEHVIDLETFLQCCCQVLKPGGSLFITTINKTQLSYALGMVF SEQIAGVPGKGTHTWEK FVSPETLESILESNGLSVQTVVGMLYNPFGYWHWSENTSLNYAAHAV KSRVQEHPASAEFVLKGETEELQANACTNPAVHEKLKK
Host	Rabbit
Reactivity	Human
Purification	Protein A
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
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)

[Protocol Download](#)

- Immunofluorescence (Transfected cell)

- Flow Cytometry (Transfected cell)

Gene Info — COQ3

Entrez GeneID [51805](#)

GeneBank Accession# [BC063463.1](#)

Protein Accession# [AAH63463.1](#)

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](#)