SunLong Biotech Co.,LTD
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**[ Primary Antibody ]**

# Rabbit Anti-COQ3 antibody

**Catalog Number: SL13985R**

**FOR RESEARCH USE ONLY**

**[ DATASHEET ]**

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| **Host:** | Rabbit |
| **Isotype:** | IgG |
| **Clonality:** | Polyclonal |
| **Target:** | COQ3 |
| **Immunogen:** | KLH conjugated synthetic peptide derived from human COQ3: 151-250/369 |
| **Purification:** | affinity purified by Protein A |
| **Concentration:** | 1mg/ml |
| **Storage:** | 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. |
| **Applications:** | IHC-P=1:100-500<br>IHC-F=1:100-500<br>ICC/IF=1:100-500<br>IF=1:100-500<br>ELISA=1:5000-10000 （Paraffin sections need antigen repair）<br>not yet tested in other applications.<br>optimal dilutions/concentrations should be determined by the end user. |
| **Reactivity:** | (predicted: Human, Mouse, Rat, Dog, Pig, Cow, Horse, Rabbit) |
| **Predicted MW.:** | 41kDa |
| **Subcellular Location:** | cytoplasmic |
| **Background:** | 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. |

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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| | The COQ3 gene product is also capable of methylating the distinct prokaryotic early intermediate 2-hydroxy-6-polyprenyl phenol.[supplied by OMIM, Mar 2008]<br>**Function:** COQ3 (Coenzyme Q3 homolog, methyltransferase) is an O-methyltransferase essential in the biosynthetic pathway of coenzyme Q (ubiquinone).<br>**Subcellular Location:** Mitochondrion matrix.<br>**Similarity:** Belongs to the methyltransferase superfamily. UbiG/COQ3 family.<br>**Database links:**<br>**Entrez Gene:** 51805 Human<br>Omim: 605196 Human<br>**SwissProt:** Q9NZJ6 Human |

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