Datasheet for ABIN6138894

anti-COQ3 antibody (AA 50-369)

2 Images

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Overview

Quantity:	100 µL
Target:	COQ3
Binding Specificity:	AA 50-369
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This COQ3 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 50-369 of human COQ3 (NP_059117.3).
Sequence:	PGVFNEYRTI WFKSYRTIFS CLNRIKSFRY PWARLYSTSQ TTVDSGEVKT FLALAHKWWD EQGVYAPLHS MNDLRVPFIR DNLLKTIPNH QPGKPLLGMK ILDVGCGGGL LTEPLGRLGA SVIGIDPVDE NIKTAQCHKS FDPVLDKRIE YRVCSLEEIV EETAETFDAV VASEVVEHVI DLETFLQCCC QVLKPGGSLF ITTINKTQLS YALGIVFSEQ IASIVPKGTH TWEKFVSPET LESILESNGL SVQTVVGMLY NPFSGYWHWS ENTSLNYAAY AVKSRVQEHP ASAEFVLKGE TEELQANACT NPAVHEKLKK
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

Product Details

Purification:	Affinity purification

Target Details

Target:	COQ3
Alternative Name:	COQ3 (COQ3 Products)
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. The COQ3 gene product is also capable of methylating the distinct prokaryotic early intermediate 2-hydroxy-6-polyprenyl phenol.[supplied by OMIM, Mar 2008],COQ3,DHHBMT,DHHBMTASE,UG0215E05,bA9819.1,coenzyme Q3,Epigenetics & Nuclear Signaling,Cancer,Signal Transduction,Endocrine & Metabolism,Mitochondrial metabolism,Mitochondrial markers,COQ3
Molecular Weight:	41 kDa
Gene ID:	51805
UniProt:	Q9NZJ6
Pathways:	Methionine Biosynthetic Process

Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200
Restrictions:	For Research Use only

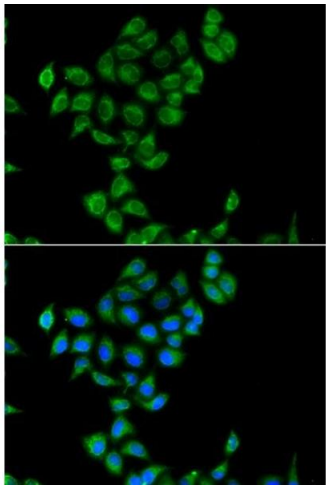
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.

Handling

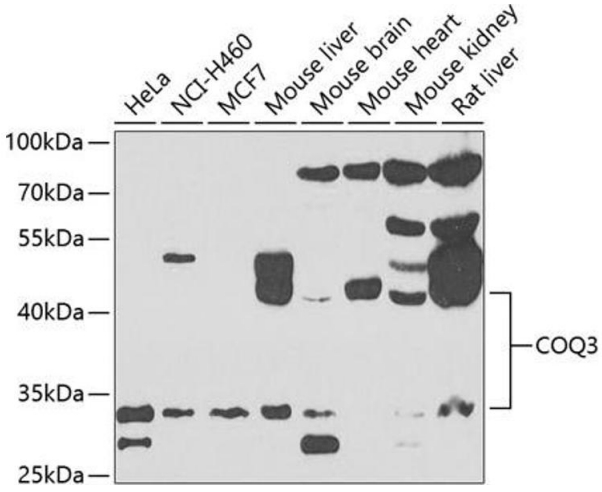
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



Immunofluorescence

Image 1. Immunofluorescence analysis of cells using COQ3 antibody (ABIN6133353, ABIN6138894, ABIN6138895 and ABIN6223356). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using COQ3 antibody (ABIN6133353, ABIN6138894, ABIN6138895 and ABIN6223356) at 1:1000 dilution.Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution.Lysates/proteins: 25 µg per lane.Blocking buffer: 3 % nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 90s.