

CABC1 Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP50963

Product Information

Application	WB
Primary Accession	Q8NI60
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	71950

Additional Information

Gene ID	56997
Other Names	Chaperone activity of bc1 complex-like, mitochondrial, Chaperone-ABC1-like, 2711-, aarF domain-containing protein kinase 3, ADCK3, CABC1
Target/Specificity	KLH conjugated synthetic peptide derived from human CABC1
Dilution	WB~~ 1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	COQ8A {ECO:0000303 PubMed:27499294, ECO:0000312 HGNC:HGNC:16812}
Function	Atypical kinase involved in the biosynthesis of coenzyme Q, also named ubiquinone, an essential lipid-soluble electron transporter for aerobic cellular respiration (PubMed: 21296186 , PubMed: 25498144 , PubMed: 25540914 , PubMed: 27499294 , PubMed: 36302899 , PubMed: 38425362). Its substrate specificity is still unclear: may act as a protein kinase that mediates phosphorylation of COQ3 (By similarity). According to other reports, acts as a small molecule kinase, possibly a lipid kinase that phosphorylates a prenyl lipid in the ubiquinone biosynthesis pathway, as suggested by its ability to bind coenzyme Q lipid intermediates (PubMed: 25498144 , PubMed: 27499294). However, the small molecule kinase activity was not confirmed by another publication (By similarity). Shows an unusual selectivity for binding ADP over ATP (PubMed: 25498144).
Cellular Location	Mitochondrion membrane; Single-pass membrane protein {ECO:0000255, ECO:0000305 PubMed:25216398}

Tissue Location

Widely expressed, with highest levels in adrenal gland, heart, pancreas, nasal mucosa, stomach, uterus and skeletal muscle.

Background

Putative protein kinase involved in the biosynthesis of coenzyme Q since it is able to rescue partially coenzyme Q6 biosynthesis of yeast COQ8 mutants. May be a chaperone-like protein essential for the proper conformation and functioning of protein complexes in the respiratory chain.

References

Iizumi M.,et al.Cancer Res. 62:1246-1250(2002).

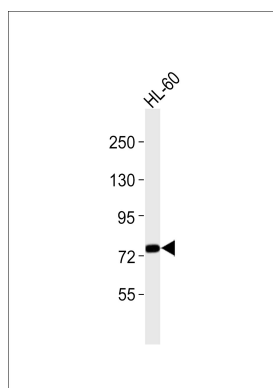
Ievolella C.,et al.Submitted (MAY-2000) to the EMBL/GenBank/DDBJ databases.

Wan D.,et al.Proc. Natl. Acad. Sci. U.S.A. 101:15724-15729(2004).

Ota T.,et al.Nat. Genet. 36:40-45(2004).

Bechtel S.,et al.BMC Genomics 8:399-399(2007).

Images



Anti-CABC1 Antibody at 1:1000 dilution + HL-60 whole cell lysates. Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 72 kDa. Blocking/Dilution buffer: 5% NFD/MTBST.

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