

CABC1 Antibody

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP50963

Product Information

Application	WB
Primary Accession	<u>Q8NI60</u>
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}

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

Iiizumi 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 Antibodyat 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% NFDM/TBST.

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