

CABC1 Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP50963**Specification**

CABC1 Antibody - Product Information

Application	WB
Primary Accession	Q8NI60
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	72 KDa
Antigen Region	281 - 340

CABC1 Antibody - 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 encompassing a sequence within the center region of human CABC1. The exact sequence is proprietary.

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

CABC1 Antibody - 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

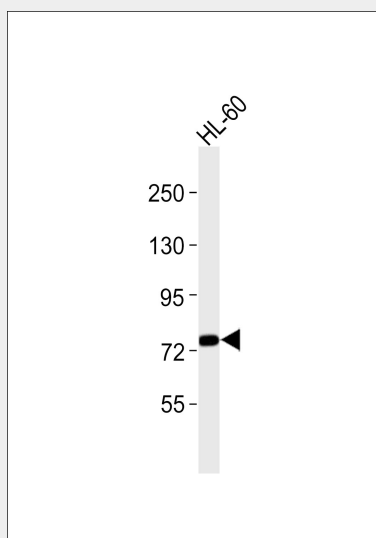
Widely expressed, with highest levels in adrenal gland, heart, pancreas, nasal mucosa, stomach, uterus and skeletal muscle.

CABC1 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

CABC1 Antibody - 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% NFDM/TBST.

CABC1 Antibody - 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.

CABC1 Antibody - 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).