

# **CABC1 Polyclonal Antibody**

Catalog # AP68766

### **Product Information**

ApplicationWB, IHC-P, IFPrimary AccessionQ8NI60

**Reactivity** Human, Mouse, Rat

HostRabbitClonalityPolyclonalCalculated MW71950

#### **Additional Information**

**Gene ID** 56997

Other Names ADCK3; CABC1; PP265; Chaperone activity of bc1 complex-like; mitochondrial;

Chaperone-ABC1-like; aarF domain-containing protein kinase 3

Dilution WB~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300.

Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other

applications. IHC-P~~N/A IF~~1:50~200

Format Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium

azide.

Storage Conditions -20°C

#### **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,

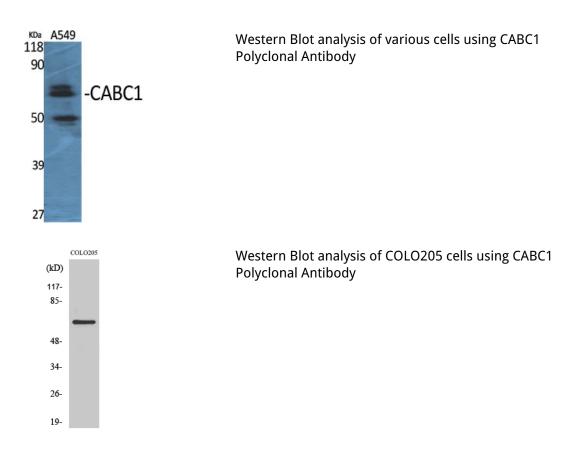
ECO:0000305 | PubMed:25216398}

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

## **Background**

Atypical kinase involved in the biosynthesis of coenzyme Q, also named ubiquinone, an essential lipid-soluble electron transporter for aerobic cellular respiration (PubMed:25498144, PubMed:21296186, PubMed:25540914, PubMed:27499294). Its substrate specificity is unclear: does not show any protein kinase activity (PubMed:25498144, PubMed:27499294). Probably 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). Shows an unusual selectivity for binding ADP over ATP (PubMed:25498144).

## **Images**



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