

# CABC1 Polyclonal Antibody

Catalog # AP68766

## Product Information

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<b>Application</b>	WB, IHC-P, IF, ICC, E
<b>Primary Accession</b>	<a href="#">Q8NI60</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	71950

## Additional Information

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<b>Gene ID</b>	56997
<b>Other Names</b>	ADCK3; CABC1; PP265; Chaperone activity of bc1 complex-like; mitochondrial; Chaperone-ABC1-like; aarF domain-containing protein kinase 3
<b>Dilution</b>	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 ICC~~N/A E~~N/A
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
<b>Storage Conditions</b>	-20°C

## Protein Information

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<b>Name</b>	COQ8A {ECO:0000303   PubMed:27499294, ECO:0000312   HGNC:HGNC:16812}
<b>Function</b>	Atypical kinase involved in the biosynthesis of coenzyme Q, also named ubiquinone, an essential lipid-soluble electron transporter for aerobic cellular respiration (PubMed: <a href="#">21296186</a> , PubMed: <a href="#">25498144</a> , PubMed: <a href="#">25540914</a> , PubMed: <a href="#">27499294</a> , PubMed: <a href="#">36302899</a> , PubMed: <a href="#">38425362</a> ). 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: <a href="#">25498144</a> , PubMed: <a href="#">27499294</a> ). However, the small molecule kinase activity was not confirmed by another publication (By similarity). Shows an unusual selectivity for binding ADP over ATP (PubMed: <a href="#">25498144</a> ).
<b>Cellular Location</b>	Mitochondrion membrane; Single-pass membrane protein {ECO:0000255, ECO:0000305   PubMed:25216398}

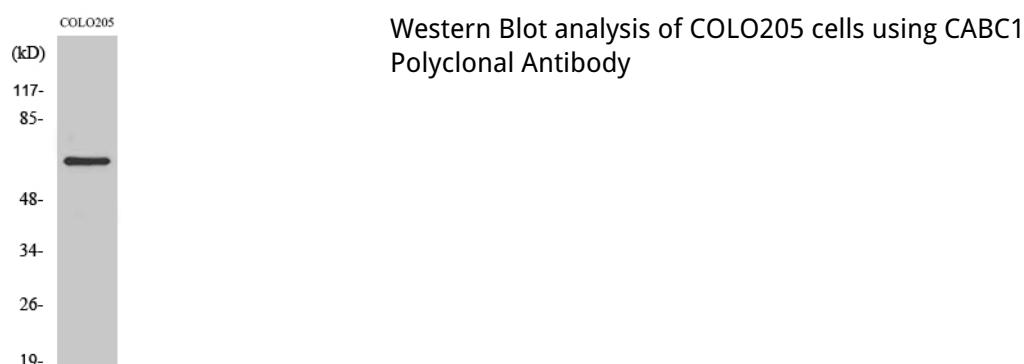
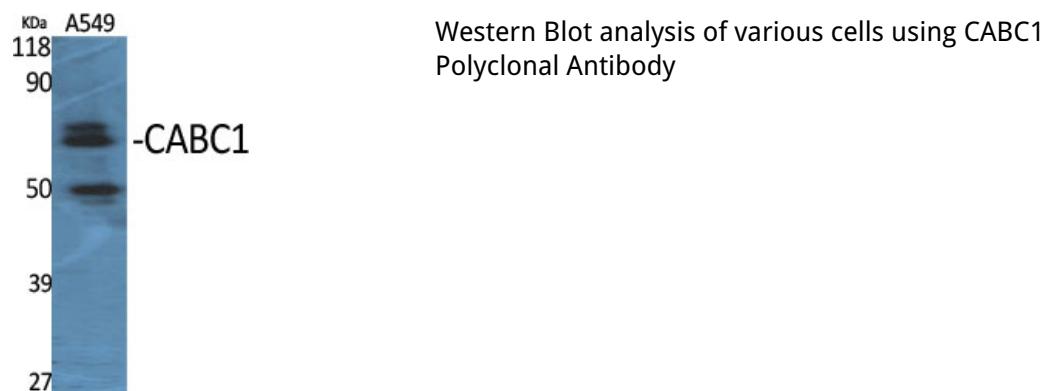
## Tissue Location

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

## Background

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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