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CABC1 Antibody (C-term D531) Blocking Peptide

Synthetic peptide
Catalog # BP7116b

Specification

CABC1 Antibody (C-term D531) Blocking Peptide - Product Information

Primary Accession Q8NI60

CABC1 Antibody (C-term D531) Blocking Peptide - 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
The synthetic peptide sequence used to generate the antibody AP7116b was selected from the N-term region of human CABC1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

CABC1 Antibody (C-term D531) Blocking Peptide - 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: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).

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 (C-term D531) Blocking Peptide - Protocols

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

- Blocking Peptides

CABC1 Antibody (C-term D531) Blocking Peptide - Images

CABC1 Antibody (C-term D531) Blocking Peptide - Background

CABC1 is one of several proteins for which expression is induced by p53 expression. The S. pombe homolog, ABC1, is a chaperone-like protein essential for the proper conformation and functioning of protein complexes in the respiratory chain.

CABC1 Antibody (C-term D531) Blocking Peptide - References

Iiizumi, M., et al., Cancer Res. 62(5):1246-1250 (2002).