

Rabbit ADCK3 Polyclonal Antibody | anti-ADCK3 antibody

ADCK3 Antibody

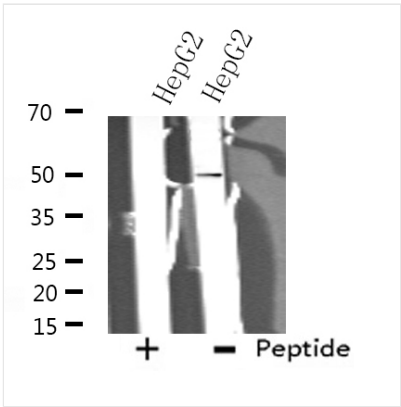
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA324054	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

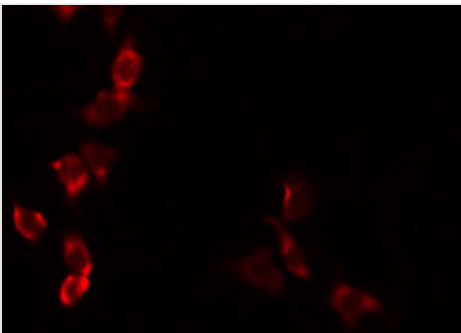
ADCK3; Polyclonal Antibody; ADCK3 Antibody; aarF domain containing protein kinase 3; aarF domain-containing protein kinase 3; ADCK 3; Adck3; ADCK3_HUMAN; ARCA2; CABC 1; CABC1; Chaperone ABC1 (activity of bc1 complex S.pombe) like; Chaperone ABC1 activity of bc1 complex homolog; Chaperone ABC1 like; Chaperone activity of bc1 complex like; Chaperone activity of bc1 complex like mitochondrial; Chaperone activity of bc1 complex-like; Chaperone-ABC1-like; Coenzyme Q8 homolog; COQ 8; COQ10D4; COQ8; S. cerevisiae; homolog of; MGC4849; mitochondrial; OTTHUMP00000035734; OTTHUMP00000035737; SCAR9; anti-ADCK3 antibody

PRODUCT SPECIFICATIONS

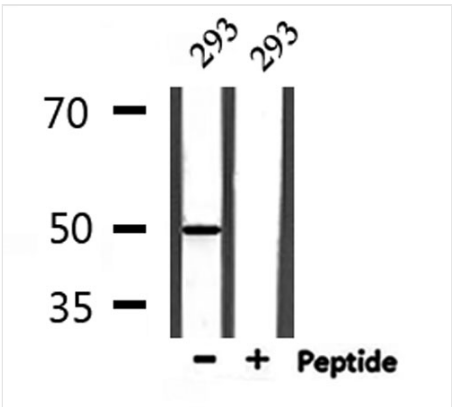
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ADCK3 antibody detects endogenous levels of total ADCK3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	647
Applicable Applications for anti-ADCK3 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide
Subcellular Location	Mitochondrion.
Tissue Specificity	Widely expressed, with highest levels in adrenal gland, heart, pancreas, nasal mucosa, stomach, uterus and skeletal muscle.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Xenopus
Similarity	Pig (100%), Zebrafish (91%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (91%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of extracts from HepG2 cells using ADCK3 antibody.



IF (Immunofluorescence)
AAA324054 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from 293, using ADCK3 Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-ADCK3 antibody	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). Subunit Structure: Homodimer; homodimerizes via its transmembrane region (PubMed:25216398). Interacts with the multi-subunit COQ enzyme complex, composed of at least COQ3, COQ4, COQ5, COQ6, COQ7 and COQ9 (PubMed:27499294, PubMed:27499296). Similarity: Adopts an atypical protein kinase-like fold: while it adopts a core fold similar to that of well-characterized protein kinase-like domains, a number of features are positioned to inhibit the kinase activity: (1) an atypical AAAS motif in an alanine-rich (A-rich) loop that replaces the canonical glycine-rich (G-rich) nucleotide-binding loop and limits ATP binding by establishing an unusual selectivity for ADP and (2) an N-terminal domain, containing the KxGQ motif, that completely occludes the typical substrate binding pocket (PubMed:25498144). Nucleotide-binding opens the substrate binding pocket and flips the active site from inside the hydrophobic core into a catalytically competent, solvent-exposed posture (PubMed:27499294). Belongs to the protein kinase superfamily. ADCK protein kinase family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	34147522
NCBI GeneID	56997

NCBI Accession #	NP_064632.2
NCBI GenBank Nucleotide #	NM_020247.4
UniProt Accession #	Q8NI60; Q5T7A5; Q63HK0; Q8NCJ6; Q9HBQ1; Q9NQ67
Molecular Weight	Observed: 50 kD Predicted: 72 kDa
NCBI Official Full Name	atypical kinase COQ8A, mitochondrial
NCBI Official Synonym Full Names	coenzyme Q8A
NCBI Official Symbol	COQ8A
NCBI Official Synonym Symbols	COQ8; ADCK3; ARCA2; CABC1; SCAR9; COQ10D4
NCBI Protein Information	atypical kinase COQ8A, mitochondrial
UniProt Protein Name	Atypical kinase COQ8A, mitochondrial
UniProt Gene Name	COQ8A
UniProt Synonym Gene Names	ADCK3ImportedManual assertion inferred from database entriesiHGNC:16812; CABC11 PublicationManual assertion based on opinion iniRef.1; Chaperone-ABC1-like1 PublicationManual assertion based on opinion iniRef.1

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/adck3-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/324054>