

Rabbit ADCK4 Polyclonal Antibody | anti-ADCK4 antibody

ADCK4 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327558	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

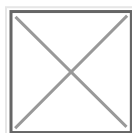
PRODUCT SYNONYMS

ADCK4; Polyclonal Antibody; ADCK4 Antibody; aarF domain containing protein kinase 4; ADCK4_HUMAN; NPHS9; Uncharacterized aarF domain containing protein kinase 4; Uncharacterized aarF domain-containing protein kinase 4; anti-ADCK4 antibody

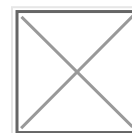
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ADCK4 antibody detects endogenous levels of total ADCK4
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	503
Applicable Applications for anti-ADCK4 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ADCK4
Subcellular Location	Membrane.
Tissue Specificity	Widely expressed, including renal podocytes.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (92%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (82%), Xenopus (92%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES


WB (Western Blot)

Western blot analysis of ADCK4 Antibody expression in HepG2 cells lysates.


WB (Western Blot)

Western blot analysis of ADCK4 using HuvEc whole cell lysates



IF (Immunofluorescence)

AAA327558 staining HepG2 cells 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) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-ADCK4 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:24270420). Its substrate specificity is unclear: does not show any protein kinase activity. Probably acts as a small molecule kinase, possibly a lipid kinase that phosphorylates a prenyl lipid in the ubiquinone biosynthesis pathway. Required for podocyte migration (PubMed:24270420). Subunit Structure: Homodimer; homodimerizes via its transmembrane region (PubMed:25216398). Interacts with COQ6 and COQ7 (PubMed:24270420). Interacts with the multi-subunit COQ enzyme complex, composed of at least COQ3, COQ4, COQ5, COQ6, COQ7 and COQ9 (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. The KxGQ motif completely occludes the typical substrate binding pocket. Nucleotide-binding opens the substrate binding pocket and flips the active site from inside the hydrophobic core into a catalytically competent, solvent-exposed posture. Belongs to the protein kinase superfamily. ADCK protein kinase family.
--	---

NCBI AND UNIPROT INFORMATION

NCBI GI #	217416386
NCBI GeneID	79934
NCBI Accession #	NP_001136027.1
NCBI GenBank Nucleotide #	NM_001142555.2
UniProt Accession #	Q96D53; Q8TAJ1; Q9HA52
Molecular Weight	Observed: 60 kDa Predicted: 61 kDa
NCBI Official Full Name	atypical kinase COQ8B, mitochondrial isoform b
NCBI Official Synonym Full Names	coenzyme Q8B
NCBI Official Symbol	COQ8B
NCBI Official Synonym Symbols	ADCK4; NPHS9
NCBI Protein Information	atypical kinase COQ8B, mitochondrial
UniProt Protein Name	Atypical kinase COQ8B, mitochondrial
UniProt Gene Name	COQ8B
UniProt Synonym Gene Names	ADCK4ImportedManual assertion inferred from database entriesiHGNC:19041

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.