

Rabbit anti-Human C109B Polyclonal Antibody | anti-CCDC109B antibody

C109B Antibody (C-term)

CATALOG # AAA289260	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Western Blot
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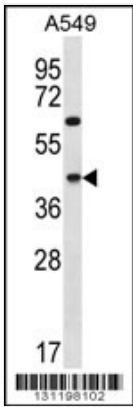
PRODUCT SYNONYMS

C109B; Polyclonal Antibody; C109B Antibody (C-term); Calcium uniporter regulatory subunit MCUB; mitochondrial; MCUB; Coiled-coil domain-containing protein 109B; CCDC109B; MCUB; anti-CCDC109B antibody

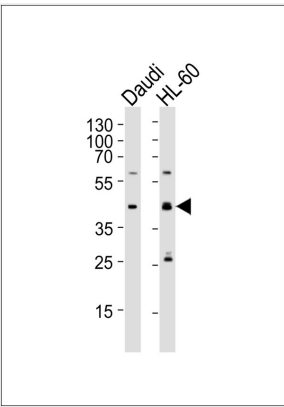
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This C109B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 291-320 amino acids from the C-terminal region of human C109B.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	291-320
Sequence Length	336
Applicable Applications for anti-CCDC109B antibody	ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Function	Negatively regulates the activity of MCU, the mitochondrial inner membrane calcium uniporter, and thereby modulates calcium uptake into the mitochondrion. Does not form functional calcium channels by itself. Mitochondrial calcium homeostasis plays key roles in cellular physiology and regulates cell bioenergetics, cytoplasmic calcium signals and activation of cell death pathways.
Cellular Location	Mitochondrion inner membrane; Multi-passmembrane protein
Preparation and Storage	Maintain refrigerated at 2-8°C for up to weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)
C109B Antibody (C-term) western blot analysis in A549 cell line lysates (35ug/lane). This demonstrates the C109B antibody detected the C109B protein (arrow).



WB (Western Blot)
Western blot analysis of lysates from Daudi, HL-60 cell line (from left to right), using C109B Antibody (C-term). AAA289260 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:5000 dilution was used as the secondary antibody. Lysates at 35ug per lane.

ADDITIONAL INFORMATION

Product Categories/Family for anti-CCDC109B antibody	Cell Biology
References	Kalsi, G., et al. Hum. Mol. Genet. 19(12):2497-2506(2010) Hosgood, H.D. III, et al. Occup Environ Med 66(12):848-853(2009) Lamesch, P., et al. Genomics 89(3):307-315(2007) Oh, J.H., et al. Mamm. Genome 16(12):942-954(2005)

NCBI AND UNIPROT INFORMATION

NCBI GI #	194018570
NCBI GeneID	55013
NCBI Accession #	NP_060388.2
NCBI GenBank Nucleotide #	NM_017918.4
UniProt Accession #	Q9NWR8; Q6IAC1; A8K4Y3
NCBI Official Full Name	calcium uniporter regulatory subunit MCUB, mitochondrial
NCBI Official Synonym Full Names	coiled-coil domain containing 109B
NCBI Official Symbol	CCDC109B
NCBI Official Synonym Symbols	MCUB
NCBI Protein Information	calcium uniporter regulatory subunit MCUB, mitochondrial
UniProt Protein Name	Calcium uniporter regulatory subunit MCUB, mitochondrial
UniProt Gene Name	CCDC109B
UniProt Synonym Gene Names	MCUB; MCUB
UniProt Entry Name	MCUB_HUMAN

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.