

Rabbit anti-Human MCU Polyclonal Antibody | anti-MCU antibody

MCU Antibody

CATALOG # AAA233844	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot, ELISA
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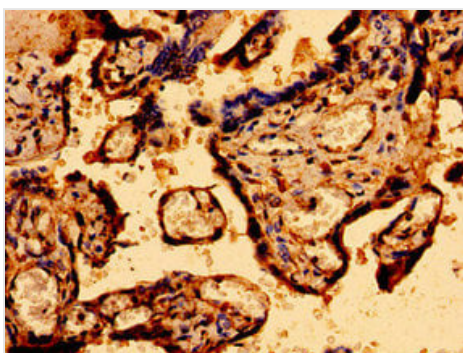
PRODUCT SYNONYMS

MCU; Polyclonal Antibody; MCU Antibody; Calcium uniporter protein; mitochondrial1 Publication; Coiled-coil domain-containing protein 109A
Curated; anti-MCU antibody

PRODUCT SPECIFICATIONS

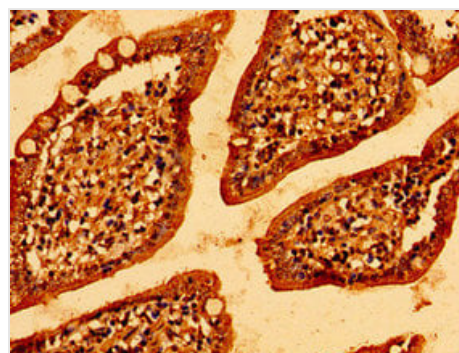
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	>95%, Protein G purified
Form/Format	Liquid
Sequence Length	330
Applicable Applications for anti-MCU antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Immunogen	Recombinant Human Calcium uniporter protein, mitochondrial protein (155-233AA)
Conjugation	Non-conjugated
Buffer	Preservative: 0.03% Proclin 300 Constituents: 50% Glycerol, 0.01M PBS, pH 7.4
Preparation and Storage	Upon receipt, store at -20 degree C or -80 degree C. Avoid repeated freeze.

IMAGES



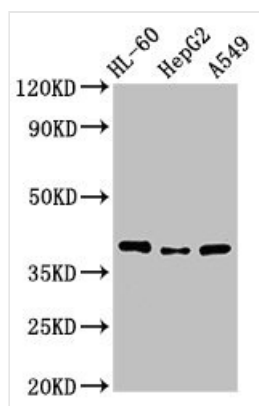
IHC (Immunohistochemisry)

Immunohistochemistry of paraffin-embedded human placenta tissue using AAA233844 at dilution of 1:100



IHC (Immunohiostchemistry)

Immunohistochemistry of paraffin-embedded human small intestine tissue using AAA233844 at dilution of 1:100



WB (Western Blot)

Western BlotPositive WB detected in: HL-60 whole cell lysate, HepG2 whole cell lysate, A549 whole cell lysateAll lanes: MCU antibody at 3.4ug/mlSecondaryGoat polyclonal to rabbit IgG at 1/50000 dilutionPredicted band size: 40, 37, 36 KDaObserved band size: 40 KDa

ADDITIONAL INFORMATION

Related Product Information for anti-MCU antibody

Mitochondrial inner membrane calcium uniporter that mediates calcium uptake into mitochondria (PubMed:21685888, PubMed:21685886, PubMed:23101630, PubMed:22904319, PubMed:23178883, PubMed:22829870, PubMed:22822213, PubMed:24332854, PubMed:23755363, PubMed:26341627). Constitutes the pore-forming and calcium-conducting subunit of the uniporter complex (uniplex) (PubMed:23755363). Activity is regulated by MICU1 and MICU2. At low Ca(2+) levels MCU activity is down-regulated by MICU1 and MICU2; at higher Ca(2+) levels MICU1 increases MCU activity (PubMed:24560927, PubMed:26903221). Mitochondrial calcium homeostasis plays key roles in cellular physiology and regulates cell bioenergetics, cytoplasmic calcium signals and activation of cell death pathways. Involved in buffering the amplitude of systolic calcium rises in cardiomyocytes (PubMed:22822213). While dispensable for baseline homeostatic cardiac function, acts as a key regulator of short-term mitochondrial calcium loading underlying a 'fight-or-flight' response during acute stress: acts by mediating a rapid increase of mitochondrial calcium in pacemaker cells (PubMed:25603276). participates in mitochondrial permeability transition during ischemia-reperfusion injury (By similarity). Regulates glucose-dependent insulin secretion in pancreatic beta-cells by regulating mitochondrial calcium uptake (PubMed:22904319, PubMed:22829870). Mitochondrial calcium uptake in skeletal muscle cells is involved in muscle size in adults (By similarity). Regulates synaptic vesicle endocytosis kinetics in central nerve terminal (By similarity). Involved in antigen processing and presentation (By similarity).

Product Categories/Family for anti-MCU antibody

[Cardiovascular](#); [Metabolism](#)

NCBI AND UNIPROT INFORMATION

NCBI GI #	398303803
NCBI GeneID	90550
NCBI Accession #	NP_001257608.1
NCBI GenBank Nucleotide #	NM_001270679.1
UniProt Accession #	Q8NE86; Q96FL3; B2RDF3; B3KXV7
Molecular Weight	35,159 Da
NCBI Official Full Name	calcium uniporter protein, mitochondrial isoform 2
NCBI Official Synonym Full Names	mitochondrial calcium uniporter
NCBI Official Symbol	MCU
NCBI Official Synonym Symbols	HsMCU; C10orf42; CCDC109A
NCBI Protein Information	calcium uniporter protein, mitochondrial

UniProt Protein Name	Calcium uniporter protein, mitochondrial
UniProt Gene Name	MCU
UniProt Synonym Gene Names	HsMCU

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/mcu-antibody-immunohistochemistry-western-blot-elisa/233844>