

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

[KO Validated] MCU Rabbit mAb

CATALOG # AAA282973	HOST Rabbit	REACTIVITY Human	APPLICATIONS ELISA, Western Blot
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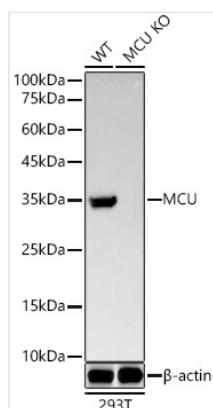
PRODUCT SYNONYMS

MCU; Monoclonal Antibody; [KO Validated] MCU Rabbit mAb; HsMCU; C10orf42; CCDC109A; CU; anti-MCU antibody

PRODUCT SPECIFICATIONS

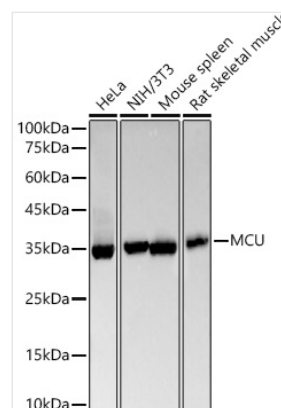
Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.
Sequence	VHQRIASWQN LGAVYCSTVV PSSDVTVVYQ NGLPVISVRL PSRRERCQFT LKPISDSVGV FLRQLQEEDR GIDRVAIYSP DGV RVAASTG IDLLLLDDFK LVINDLTYHV RPPKRDLLSH
Applicable Applications for anti-MCU antibody	ELISA, WB (Western Blot)
Cross Reactivity	Human, Mouse, Rat
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 51-170 of human MCU (NP_612366.1).
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



WB (Western Blot)

Western blot analysis of lysates from wild type(WT) and MCU knockout (KO) 293T(KO) cells, using [KO Validated] MCU Rabbit mAb (AAA282973) at 1:20000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.



WB (Western Blot)

Western blot analysis of various lysates, using [KO Validated] MCU Rabbit mAb (AAA282973) at 1:20000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.

ADDITIONAL INFORMATION

Related Product Information for anti-MCU antibody	Enables calcium channel activity; identical protein binding activity; and uniporter activity. Involved in several processes, including positive regulation of mitochondrial calcium ion concentration; positive regulation of mitochondrial fission; and positive regulation of neutrophil chemotaxis. Acts upstream of or within calcium import into the mitochondrion. Located in mitochondrial inner membrane. Is integral component of mitochondrial inner membrane. Part of uniplex complex.
Product Categories/Family for anti-MCU antibody	Endocrine Metabolism; Mitochondrial metabolism; Mitochondrial markers; Cardiovascular; Heart; Antibodies

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	Calculated MW: 40kDa
UniProt Protein Name	Calcium uniporter protein, mitochondrial
UniProt Gene Name	MCU
UniProt Synonym Gene Names	C10orf42; CCDC109A
UniProt Entry Name	MCU_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.

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Online datasheet: <https://www.aaabiotech.com/monoclonal/mcu-antibody-western-blot-elisa/282973>