MCU Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	MCU, Polyclonal Antibody
Full Product Name	MCU Polyclonal Antibody
Product Gene Name	anti-MCU antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	PBS with 0.02% sodium azide, 50% glycerol, pH 7.3.
Purity/Purification	Affinity Purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	35kDa; 36kDa; 39kDa
OMIM	614197
3D Structure	ModBase 3D Structure for Q8NE86
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-MCU antibody	Western Blot (WB)
Application Notes for anti-MCU antibody	WB: 1:500-1:2000
Related Product Information for anti-MCU antibody	This gene encodes a calcium transporter that localizes to the mitochondrial inner membrane. The encoded protein interacts with mitochondrial calcium uptake 1. Alternative splicing results in multiple transcript variants.
Other Notes	Small volumes of anti-MCU antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for MCU purchase	MBS8570947 is an antibody targeting MCU. Also known as MCU Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for MCU. It may not necessarily be applicable to this product.

NCBI GI #	398303803
NCBI GeneID	90550
NCBI Accession #	NP_001257608.1
UniProt Primary Accession #	Q8NE86
UniProt Related Accession #	Q8NE86
GenBank Nucleotide #	NP_001257608.1

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
UniProt Protein Name	Calcium uniporter protein, mitochondrial
UniProt Synonym Protein Names	Coiled-coil domain-containing protein 109A
Protein Family	Calcium uniporter protein
UniProt Gene Name	MCU
UniProt Synonym Gene Names	C10orf42; CCDC109A
UniProt Entry Name	MCU_HUMAN
NCBI Protein Information	calcium uniporter protein, mitochondrial
Research Articles on MCU	**1.** Wild-type TRPM2 but not Ca(2+)-impermeable mutant E960D reconstituted phosphorylation and expression of Pyk2 and CREB in TRPM2-depleted cells exposed to doxorubicin. Results demonstrate that TRPM2 expression protects the viability of neuroblastoma through Src, Pyk2, CREB, and MCU activation, which play key roles in maintaining mitochondrial function and cellular bioenergetics
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