

Mouse MICU1 Monoclonal Antibody | anti-MICU1 antibody

MICU1 Monoclonal Antibody

CATALOG # AAA173654	HOST Mouse	REACTIVITY Human, Mouse, Rat	APPLICATIONS Immunofluorescence, Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

MICU1; Monoclonal Antibody; MICU1 Monoclonal Antibody; anti-MICU1 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG
Clone Number	4E7
Purity/Purification	Protein A Purification
Concentration	1mg/mL (varies by lot)
Sequence Length	476
Applicable Applications for anti-MICU1 antibody	IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	Recombinant Protein
Buffer	PBS with 0.02% sodium azide, 50% glycerol, pH7.4
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Avoid freeze / thaw cycles.

IMAGES



IF (Immunofluorescence)

Immunofluorescence analysis of Human appendix tissue using MICU1 Monoclonal Antibody at dilution of 1:200.



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded Mouse testis tissue using MICU1 Monoclonal Antibody at dilution of 1:200.



WB (Western Blot)

Western Blot analysis of 1) MCF7, 2) Mouse brain, 3) Rat brain with MICU1 Monoclonal Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-MICU1 antibody	This gene encodes an essential regulator of mitochondrial Ca2+ uptake under basal conditions. The encoded protein interacts with the mitochondrial calcium uniporter, a mitochondrial inner membrane Ca2+ channel, and is essential in preventing mitochondrial Ca2+ overload, which can cause excessive production of reactive oxygen species and cell stress. Alternatively spliced transcript variants encoding different isoforms have been described. MICU1 (Mitochondrial Calcium Uptake 1) is a Protein Coding gene. Diseases associated with MICU1 include Myopathy With Extrapyrarnidal Signs and Fish Allergy. Among its related pathways are Ca, cAMP and Lipid Signaling. GO annotations related to this gene include calcium ion binding and protein heterodimerization activity. An important paralog of this gene is MICU3.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	306922382
NCBI GeneID	10367
NCBI Accession #	NP_001182447.1
NCBI GenBank Nucleotide #	NM_001195518.1
UniProt Accession #	Q9BPX6; O75785; Q9H9N6; Q9UFX0; A8MV96; B3KN20; B4DJH9; B4DPI1; B5MBY3; D3YTJ3
Molecular Weight	55kDa
NCBI Official Full Name	calcium uptake protein 1, mitochondrial isoform 2
NCBI Official Synonym Full Names	mitochondrial calcium uptake 1
NCBI Official Symbol	MICU1
NCBI Official Synonym Symbols	CALC; EFHA3; MPXPS; CBARA1
NCBI Protein Information	calcium uptake protein 1, mitochondrial
UniProt Protein Name	Calcium uptake protein 1, mitochondrial
UniProt Gene Name	MICU1
UniProt Synonym Gene Names	; ara CALC

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.