

MICU1 Monoclonal Antibody

Catalog No. E-AB-22114

Note: Centrifuge before opening to ensure complete recovery of vial contents.

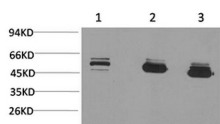
Description

Reactivity	Human,Mouse,Rat
Immunogen	Recombinant Protein
Host	Mouse
Isotype	IgG
Clone	4E7
Purification	Protein A purification
Conjugation	Unconjugated
Buffer	PBS with 0.02% sodium azide and 50% glycerol pH 7.4.

Applications Recommended Dilution

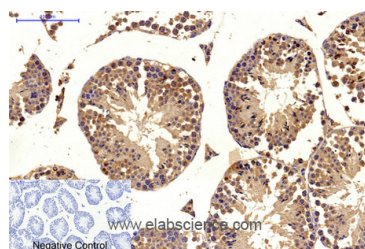
WB	1:500-1:2000
IHC	1:100-1:200
IF	1:100-1:300

Data

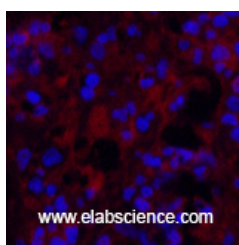


www.elabscience.com

Western Blot analysis of 1) MCF7, 2) Mouse brain,
3) Rat brain with MICU1 Monoclonal Antibody.
Observed Mw:55kDa



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



www.elabscience.com

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

Preparation & Storage

For Research Use Only

Storage Store at -20°C. Avoid freeze / thaw cycles.

Background

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 Extrapyrimal 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.

For Research Use Only