# MICU1 Monoclonal Antibody

**catalog number: E-AB-22114**

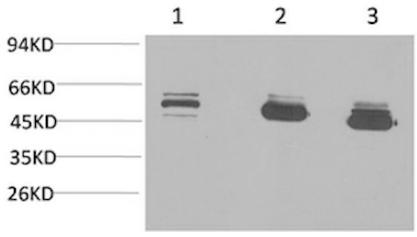
**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

## Description

| | |
|---|---|
| **Reactivity** | Human;Mouse;Rat |
| **Immunogen** | Recombinant Protein |
| **Host** | Mouse |
| **Isotype** | IgG |
| **Clone** | 4E7 |
| **Purification** | Protein A purification |
| **Buffer** | Phosphate buffered solution, pH 7.4, containing 0.05% stabilizer, 0.5% protein protectant and 50% glycerol. |

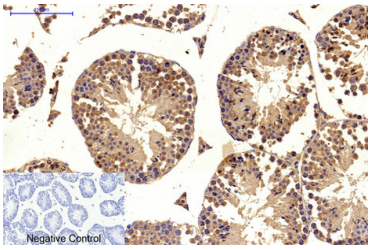
| Applications | Recommended Dilution |
|---|---|
| **WB** | 1:500-1:2000 |
| **IHC** | 1:100-1:200 |
| **IF** | 1:100-1:300 |

## Data

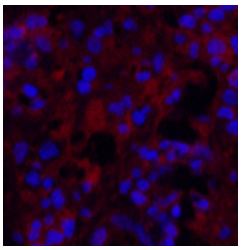



Western Blot analysis of 1) MCF7, 2) Mouse brain, 3) Rat brain with MICU1 Monoclonal Antibody.

**Observed-MW:55 kDa**




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



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

## Preparation & Storage

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|---|---|
| **Storage** | Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles. |
| **Shipping** | The product is shipped with ice pack,upon receipt,store it immediately at the temperature recommended. |

## Background



Toll-free: 1-888-852-8623
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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 Extrapyramidal 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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