

MCU Rabbit mAb

Catalog No.: A29234 **Recombinant**

Basic Information

Observed MW

30 kDa

Calculated MW

35kDa/37kDa/40kDa

Category

Primary antibody

Applications

WB,IP,IF/ICC,IF-F,ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC3944

Background

Enables calcium channel activity; identical protein binding activity; and uniporter activity. Involved in several processes, including cellular response to calcium ion starvation; positive regulation of mitochondrial calcium ion concentration; and positive regulation of mitochondrial fission. Located in mitochondrion. Part of uniplex complex. Is active in mitochondrial inner membrane.

Recommended Dilutions

WB 1:5000 - 1:25000

IP 0.5 µg - 4 µg antibody for
200 µg - 400 µg extracts of
whole cells

IF/ICC 1:100 - 1:400

IF-F 1:1000 - 1:4000

ELISA Recommended starting
concentration is 1 µg/mL.
Please optimize the
concentration based on your
specific assay requirements.
For high-ratio antibody
dilutions ($\geq 1:10000$) a
sequential dilution method
is strongly recommended to
ensure measurement
accuracy.

Immunogen Information

Gene ID

90550

Swiss Prot

Q8NE86

Immunogen

This information is considered to be commercially sensitive.

Synonyms

HsMCU; C10orf42; CCDC109A

Product Information

Source

Rabbit

Isotype

IgG

Purification

Affinity purification

Storage

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

Buffer: PBS with 0.09% Sodium azide, 0.05% BSA, 50% glycerol, pH7.3.

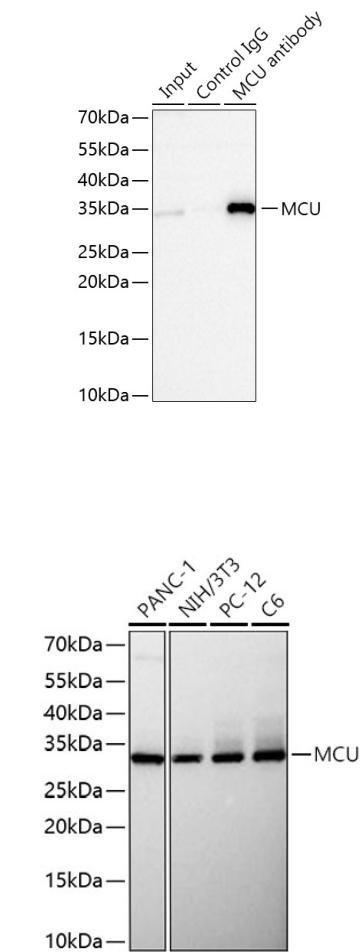
Contact

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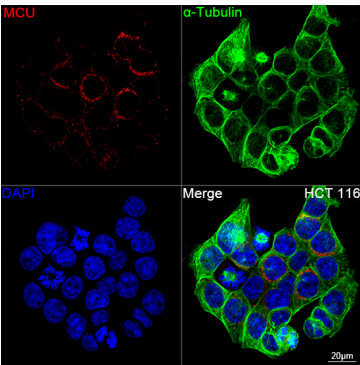
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Validation Data

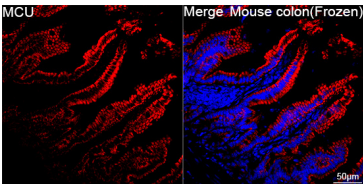


Immunoprecipitation of MCU from 300 µg extracts of NIH/3T3 cells was performed using 0.5 µg of MCU Rabbit mAb (A29234). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using MCU Rabbit mAb (A29234) at a dilution of 1:10000.

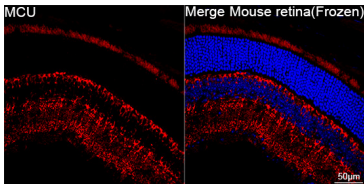
Western blot analysis of various lysates using MCU Rabbit mAb (A29234) at 1:12000 dilution incubated overnight at 4°C.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 5 s.



Confocal imaging of HCT 116 cells using MCU Rabbit mAb (A29234, dilution 1:200) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal imaging of frozen sections of Mouse colon tissue using MCU Rabbit mAb (A29234, dilution 1:2000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.



Confocal imaging of frozen sections of Mouse retina tissue using MCU Rabbit mAb (A29234, dilution 1:2000) followed by a further incubation with Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). DAPI was used for nuclear staining (Blue). Microwave antigen retrieval performed with 0.01M Citrate Buffer (pH 6.0) prior to IF staining. Objective: 40x.