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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 (≥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℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.09% Sodium azide,0.05% BSA,50% glycerol,pH7.3.

Contact

400-999-6126

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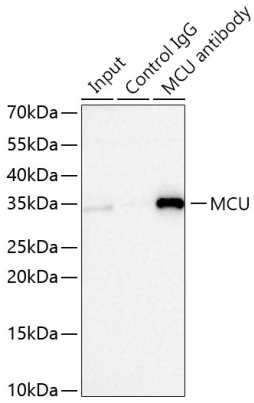
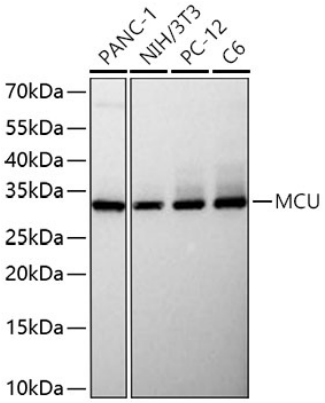
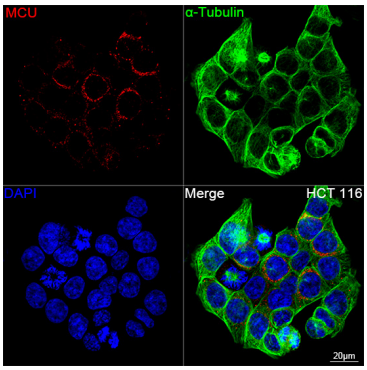
Validation Data



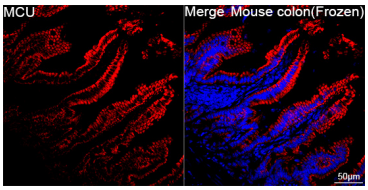
Immunoprecipitation of MCU from 300 µg extracts of NIH/3T3 cells was performed using 0.5 µg of MCU Rabbit mAb (A29234). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1x Laemmli Buffer. The Input lane represents 10% of the total input. Western blot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



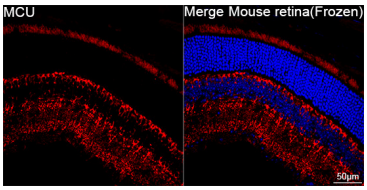
Western blot analysis of various lysates using MCU Rabbit mAb (A29234) at 1:12000 dilution incubated overnight at 4℃.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL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