Anti-CCDC109A/MCU Antibody

Catalog Number: *A00685-1*

BOSTER
antibody and ELISA experts
BOSTER BIOLOGICAL TECHNOLOGY
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Basic Information

Product Name	Anti-CCDC109A/MCU Antibody
Gene Name	MCU
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat, monkey
Tested Application	WB, IHC, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human MCU recombinant protein (Position: V51-D351).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	34 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-400 Enzyme linked immunosorbent assay (ELISA): 1:100-1000 Flow Cytometry (Fixed): 1:50-200 (Boiling the paraffin sections in 10mM citrate buffer,pH6.0,or PH8.0 EDTA repair liquid for 20 mins is required for the staining of formalin/paraffin sections.) Optimal working dilutions must be determined by end user.

Storage

12 months from date of receipt，-20℃ as supplied. 6 months 2 to 8℃ after reconstitution. Avoid repeated freezing and thawing.

Background Information

The mitochondrial calcium uniporter (MCU) is a transmembrane protein that allows the passage of calcium ions from a cell's cytosol into mitochondria. Its activity is regulated by MICU1 and MICU2, which together with the MCU make up the mitochondrial calcium uniporter complex. This gene encodes a calcium transporter that localizes to the mitochondrial inner membrane. The encoded protein interacts with mitochondrial calcium uptake 1. Alternative splicing results in multiple transcript variants.

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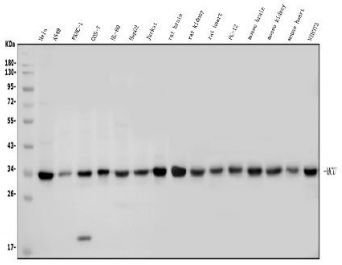
Reference

Anti-CCDC109A/MCU Antibody被引用在1文献中。

Selected Validation Data



Western blot analysis of CCDC109A/MCU using anti-CCDC109A/MCU antibody (A00685-1). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human HELA whole cell lysates,
Lane 2: human A549 whole cell lysates,
Lane 3: human PANC-1 whole cell lysates,
Lane 4: monkey COS-7 whole cell lysates,
Lane 5: human HL-60 whole cell lysates,
Lane 6: human HEPG2 whole cell lysates,
Lane 7: human Jurkat whole cell lysates,
Lane 8: rat brain tissue lysates,
Lane 9: rat kidney tissue lysates,
Lane 10: rat heart tissue lysates,
Lane 11: rat PC-12 whole cell lysates,
Lane 12: mouse brain tissue lysates,
Lane 13: mouse kidney tissue lysates,
Lane 14: mouse heart tissue lysates,
Lane 15: mouse NIH/3T3 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-CCDC109A/MCU antigen affinity purified polyclonal antibody (A00685-1) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for CCDC109A/MCU at approximately 34 kDa. The expected band size for CCDC109A/MCU is at 40 kDa.

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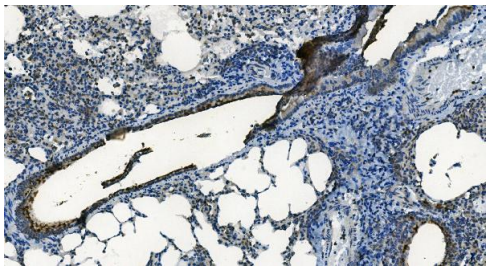
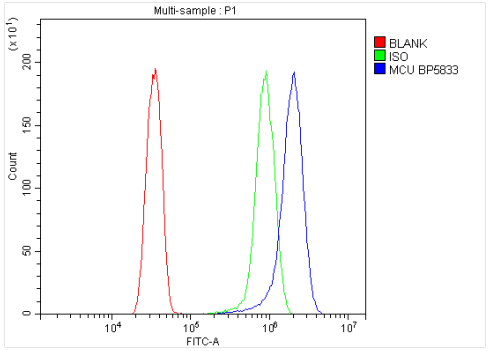


IHC analysis of CCDC109A/MCU using anti-CCDC109A/MCU antibody (A00685-1).
CCDC109A/MCU was detected in a paraffin-embedded section of mouse lung tissue. Biotinylated goat anti-rabbit IgG was used as secondary antibody. The tissue section was incubated with rabbit anti-CCDC109A/MCU Antibody (A00685-1) at a dilution of 1:200 and developed using Strepavidin-Biotin-Complex (SABC) (Catalog # SA1022) with DAB (Catalog # AR1027) as the chromogen.



Flow Cytometry analysis of Hela cells using anti-CCDC109A/MCU antibody (A00685-1).
Overlay histogram showing Hela cells stained with A00685-1 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-CCDC109A/MCU Antibody (A00685-1) at 1:100 dilution for 30 min at 20°C. DyLight®488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.