

# Product Datasheet

## CCDC109A Antibody NBP2-76948

Unit Size: 100 ul

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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### Publications: 2

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**NBP2-76948****CCDC109A Antibody****Product Information**

<b>Unit Size</b>	100 ul
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Polyclonal
<b>Preservative</b>	0.05% Sodium Azide
<b>Isotype</b>	IgG
<b>Purity</b>	Immunogen affinity purified
<b>Buffer</b>	PBS (pH7.4), 0.2% BSA, 50% Glycerol
<b>Target Molecular Weight</b>	40 kDa

**Product Description**

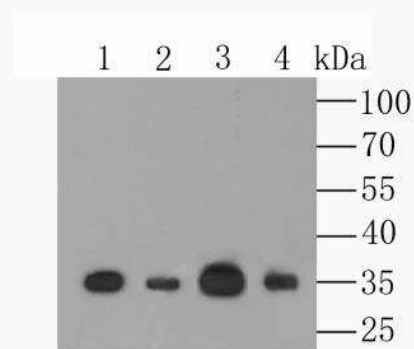
<b>Description</b>	Novus Biologicals Rabbit CCDC109A Antibody (NBP2-76948) is a polyclonal antibody validated for use in IHC, WB, Flow and ICC/IF. Anti-CCDC109A Antibody: Cited in 2 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Rabbit
<b>Gene ID</b>	90550
<b>Gene Symbol</b>	MCU
<b>Species</b>	Human, Mouse, Rat
<b>Immunogen</b>	Recombinant protein within Human CCDC109A aa 51-225 / 351. (SwissProt: Q8NE86 Human; SwissProt: Q3UMR5 Mouse)

**Product Application Details**

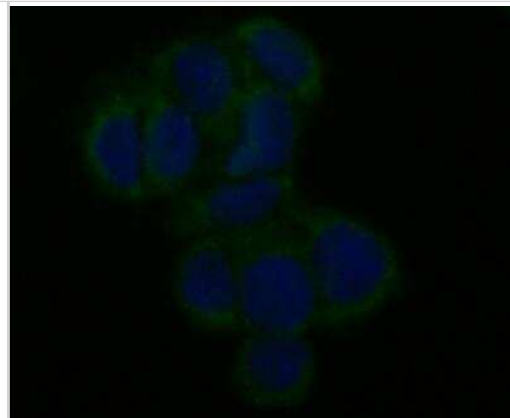
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
<b>Recommended Dilutions</b>	Western Blot 1:500-1:1000, Flow Cytometry 1:50-1:100, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:50-1:200, Immunohistochemistry-Paraffin 1:50 -1:200

**Images**

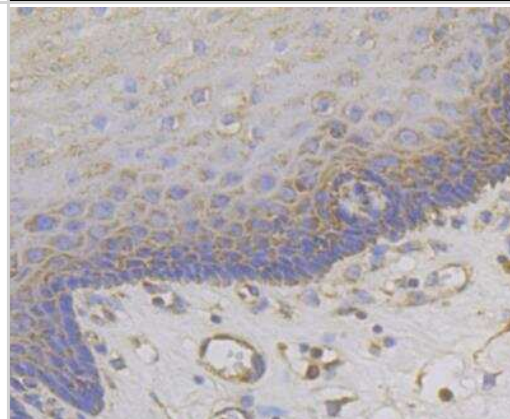
Western Blot: CCDC109A Antibody [NBP2-76948] - Western blot analysis of MCU on different lysates using anti-MCU antibody at 1/500 dilution. Positive control: Lane1: A549 Lane3: mouse spleen tissue Lane2: HL-60 Lane4: mouse brain tissue



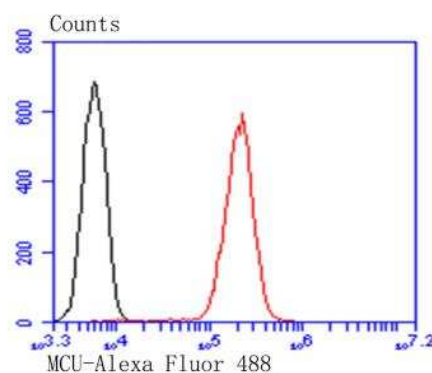
Immunocytochemistry/Immunofluorescence: CCDC109A Antibody [NBP2-76948] - ICC staining MCU in HT-29 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



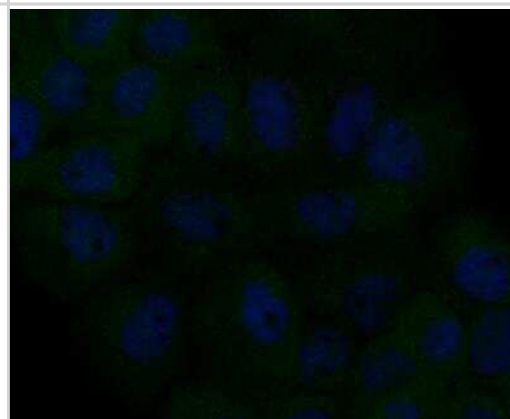
Immunohistochemistry: CCDC109A Antibody [NBP2-76948] - Immunohistochemical analysis of paraffin-embedded human esophagus tissue using anti-MCU antibody. Counter stained with hematoxylin.



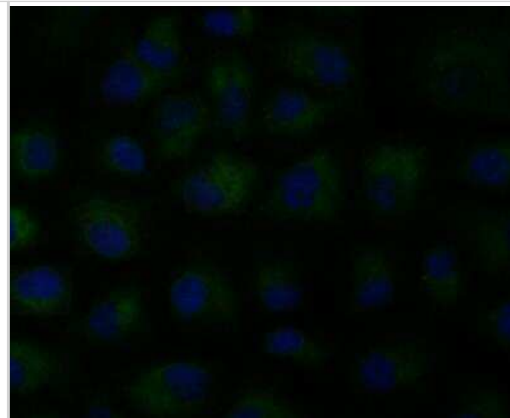
Flow Cytometry: CCDC109A Antibody [NBP2-76948] - Flow cytometric analysis of A549 cells with MCU antibody at 1/100 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti-rabbit IgG was used as the secondary antibody.



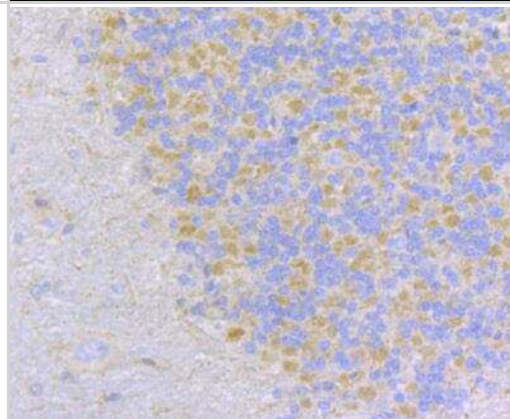
Immunocytochemistry/Immunofluorescence: CCDC109A Antibody [NBP2-76948] - ICC staining MCU in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



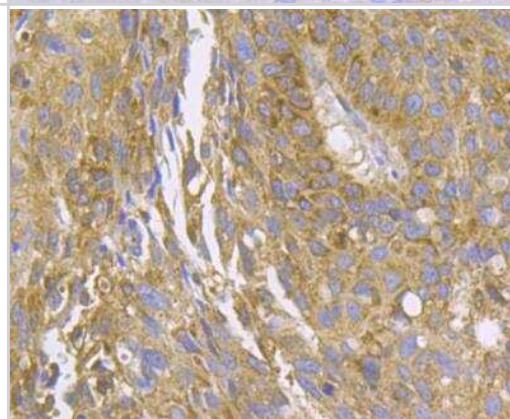
Immunocytochemistry/Immunofluorescence: CCDC109A Antibody [NBP2-76948] - ICC staining MCU in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Immunohistochemistry: CCDC109A Antibody [NBP2-76948] - Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue using anti-MCU antibody. Counter stained with hematoxylin.



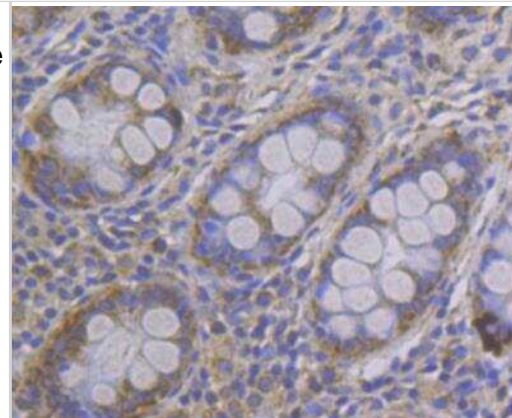
Immunohistochemistry: CCDC109A Antibody [NBP2-76948] - Immunohistochemical analysis of paraffin-embedded human lung cancer tissue using anti-MCU antibody. Counter stained with hematoxylin.



Immunohistochemistry: CCDC109A Antibody [NBP2-76948] - Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-MCU antibody. Counter stained with hematoxylin.



Immunohistochemistry: CCDC109A Antibody [NBP2-76948] - Immunohistochemical analysis of paraffin-embedded human colon tissue using anti-MCU antibody. Counter stained with hematoxylin.



## Publications

Pannoni KE, Gil D, Cawley ML et Al. Layer-specific mitochondrial diversity across hippocampal CA2 dendrites Hippocampus 2023-02-28 [PMID: 36762797]

Pannoni KE, Fischer QS, Tarannum R et al. The mitochondrial calcium uniporter is necessary for synaptic plasticity and proper mitochondrial morphology and distribution in the distal dendrites of CA2 neurons bioRxiv : the preprint server for biology 2023-11-11 [PMID: 37986798] (IHC, Mouse)



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### **Products Related to NBP2-76948**

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HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-59029PEP	CCDC109A Recombinant Protein Antigen

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### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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