

Product Datasheet

CCDC109A Antibody NBP1-88534

Unit Size: 0.1 ml

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

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NBP1-88534

CCDC109A Antibody

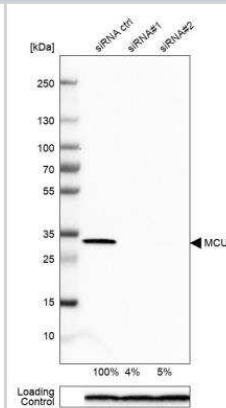
Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.02% Sodium Azide
Isotype	IgG
Purity	Immunogen affinity purified
Buffer	PBS (pH 7.2) and 40% Glycerol

Product Description	
Host	Rabbit
Gene ID	90550
Gene Symbol	MCU
Species	Human
Reactivity Notes	Reactivity reported in scientific literature (PMID: 23774321)
Immunogen	This antibody was developed against Recombinant Protein corresponding to amino acids: HHRTVHQRIASWQNLGAVYCSTVVPDDVTVVYQNGLPVISVRLPSRRERCQF TLKPISDSVGVFLRQLQEEDRGIDRVAIYSPDGV RVAASTGIDLLLLDDFKLV

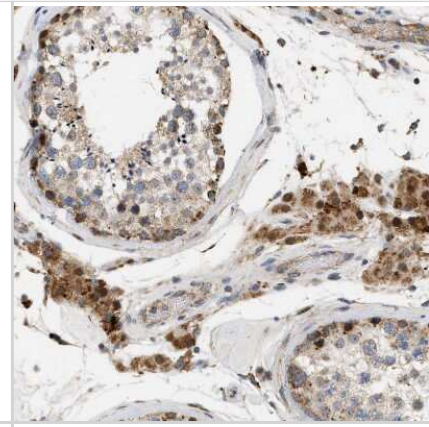
Product Application Details	
Applications	Western Blot, Simple Western, Immunohistochemistry-Paraffin, Immunohistochemistry, Knockdown Validated
Recommended Dilutions	Western Blot 0.04-0.4 ug/ml, Simple Western 1:20, Immunohistochemistry 1:50 - 1:200, Immunohistochemistry-Paraffin 1:50 - 1:200, Knockdown Validated
Application Notes	For IHC-Paraffin, HIER pH 6 retrieval is recommended. ICC/IF Fixation Permeabilization: Use PFA/Triton X-100. In Simple Western only 10 - 15 uL of the recommended dilution is used per data point. Separated by Size-Wes, Sally Sue/Peggy Sue.

Images

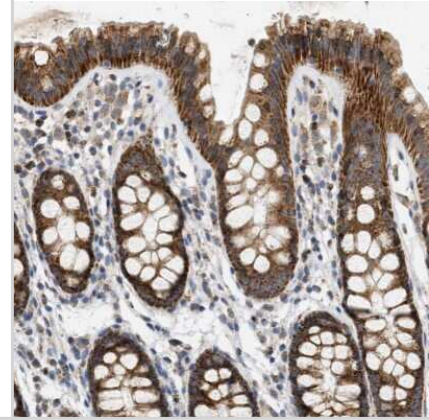
Western Blot: CCDC109A Antibody [NBP1-88534] - Analysis in A-549 cells transfected with control siRNA, target specific siRNA probe #1 and #2, using Anti-MCU antibody. Remaining relative intensity is presented. Loading control: Anti-PPIB.



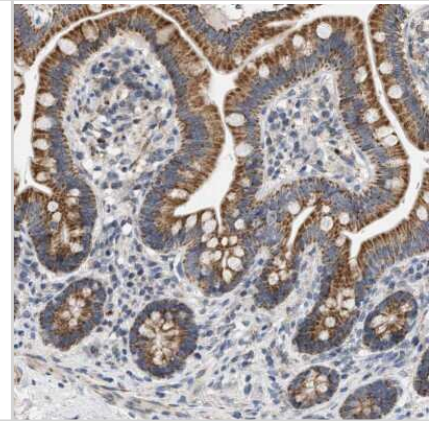
Immunohistochemistry-Paraffin: CCDC109A Antibody [NBP1-88534] - Staining of human testis shows strong granular cytoplasmic positivity in cells in seminiferous ducts.



Immunohistochemistry-Paraffin: CCDC109A Antibody [NBP1-88534] - Immunohistochemical staining of human colon shows strong granular cytoplasmic positivity in glandular cells.



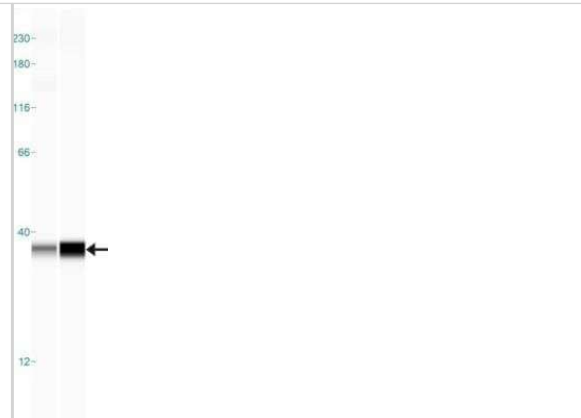
Immunohistochemistry-Paraffin: CCDC109A Antibody [NBP1-88534] - Immunohistochemical staining of human small intestine shows moderate to strong granular cytoplasmic positivity in glandular cells.



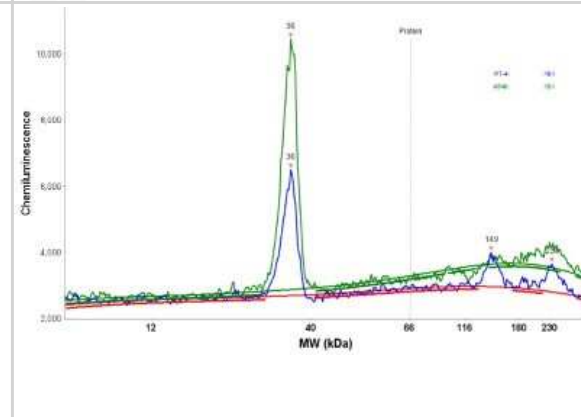
Immunohistochemistry-Paraffin: CCDC109A Antibody [NBP1-88534] - Immunohistochemical staining of human hippocampus shows moderate to strong granular cytoplasmic positivity in neurons.



Simple Western: CCDC109A Antibody [NBP1-88534] - Simple Western lane view shows a specific band for MCU in 0.2 mg/ml of RT-4 (left), A549 (right) lysate. This experiment was performed under reducing conditions using the 12-230 kDa separation system.



Simple Western: CCDC109A Antibody [NBP1-88534] - Electropherogram image(s) of corresponding Simple Western lane view. CCDC109A antibody was used at 1:20 dilution on RT-4 and A549 lysate (s).



Publications

Lee Y, Min CK, Kim TG et al. Structure and function of the N-terminal domain of the human mitochondrial calcium uniporter. *EMBO Rep* 2015-10-01 [PMID: 26341627] (WB, Human)

Arruda AP, Pers BM, Parlakgul G et al. Chronic enrichment of hepatic endoplasmic reticulum-mitochondria contact leads to mitochondrial dysfunction in obesity. *Nature Medicine* 2014-01-01 [PMID: 25419710] (WB, Human)

Kovacs-Bogdan E, Sancak Y, Kamer KJ et al. Reconstitution of the mitochondrial calcium uniporter in yeast. *Proc Natl Acad Sci U S A* 2014-06-17 [PMID: 24889638]

Stauch KL, Purnell PR, Fox HS. Quantitative Proteomics of Synaptic and Nonsynaptic Mitochondria: Insights for Synaptic Mitochondrial Vulnerability. *J Proteome Res* 2014-05-02 [PMID: 24708184] (WB)

Logan CV, Szabadkai G, Sharpe JA et al. Loss-of-function mutations in MICU1 cause a brain and muscle disorder linked to primary alterations in mitochondrial calcium signaling. *Nat Genet* 2014-02-01 [PMID: 24336167]

Pan X, Liu J, Nguyen T et al. The physiological role of mitochondrial calcium revealed by mice lacking the mitochondrial calcium uniporter. *Nat Cell Biol* 2013-12-01 [PMID: 24212091]

Qiu J, Tan YW, Hagenston AM et al. Mitochondrial calcium uniporter Mcu controls excitotoxicity and is transcriptionally repressed by neuroprotective nuclear calcium signals. *Nat Commun* 2013-01-01 [PMID: 23774321]

Baughman JM, Perocchi F, Girgis HS et al. Integrative genomics identifies MCU as an essential component of the mitochondrial calcium uniporter. *Nature* 2011-06-01 [PMID: 21685886]



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Products Related to NBP1-88534

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

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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