

Rabbit MCU Polyclonal Antibody | anti-MCU antibody

MCU (Phospho-Ser92) Rabbit pAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA314883	Rabbit	Human, Mouse, Rat	Immunohistochemistry, Immunofluorescence, Western Blot

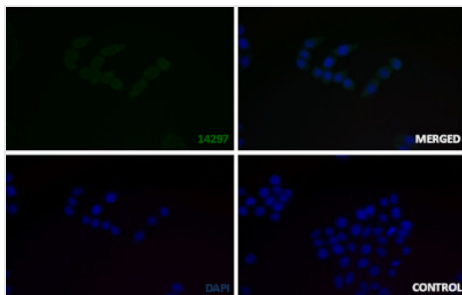
PRODUCT SYNONYMS

MCU; Polyclonal Antibody; MCU (Phospho-Ser92) Rabbit pAb; C10orf42; Calcium uniporter protein mitochondrial; Ccdc109a; HsMCU; Mitochondrial Calcium Uniporter; anti-MCU antibody

PRODUCT SPECIFICATIONS

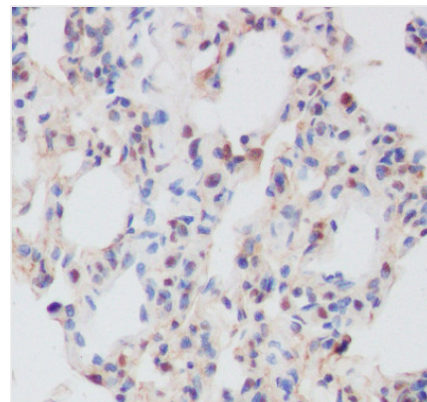
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-MCU(S92) Antibody detects endogenous levels of total Phospho-MCU(S92)
Purity/Purification	Affinity-chromatography
Form/Format	Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	2mg/ml (varies by lot)
Applicable Applications for anti-MCU antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen Description	A synthesized peptide derived from human Phospho-MCU(S92)
Preparation and Storage	Store at -20 degree C for long term preservation (recommended). Store at 4 degree C for short term use.

IMAGES



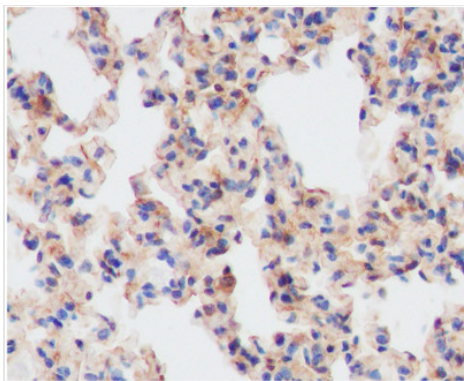
ICC (Immunocytochemistry)

Immunocytochemistry/Immunofluorescence - Phospho-MCU(S92) antibody (14297) 14297 staining Phospho-MCU(S92) in the HeLa cell line by ICC/IF. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100. Samples were incubated with 14297 at a working dilution of 1/100. The secondary antibody was Alexa Fluor[®] 488 goat anti rabbit, used at a dilution of 1/500. The negative control is shown in bottom right hand panel - for the negative control, purified 14297 was used at a dilution of 1/100 followed by Alexa Fluor[®] 647 goat anti- rabbit antibody at a dilution of 1/500. Nuclei were counterstained with DAPI.

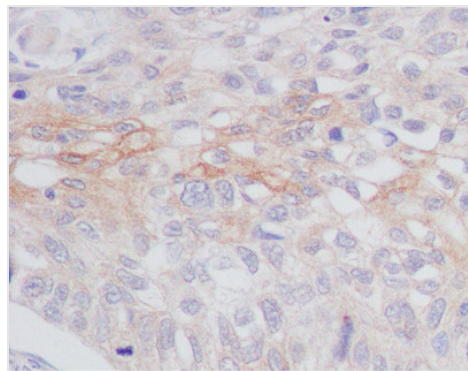


IHC (Immunohistochemistry)

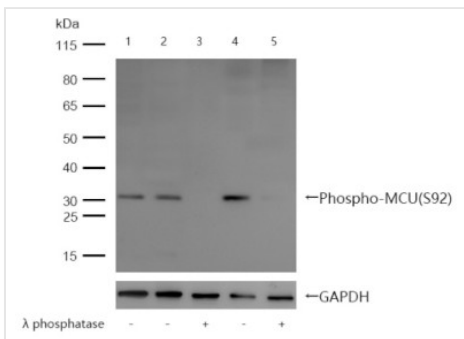
Formalin-fixed, paraffin-embedded rat lung tissue stained for Phospho-MCU(S92) using 14297 at 1/100 dilution in immunohistochemical analysis.



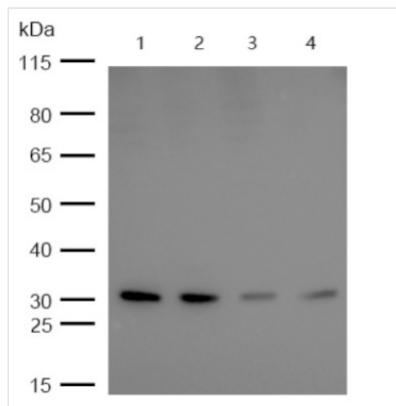
IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded mouse lung tissue stained for Phospho-MCU(S92) using 14297 at 1/100 dilution in immunohistochemical analysis.



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human lung carcinoma tissue stained for Phospho-MCU(S92) using 14297 at 1/100 dilution in immunohistochemical analysis.



WB (Western Blot)
All lanes : Phospho-MCU(S92) Rabbit mAb at 1/1k dilution
Lane 1 : 3T3 whole cell lysates
Lane 2 : 293T whole cell lysates
Lane 3 : 293T treated with Lambda Protein Phosphatase for 30min whole cell lysates
Lane 4 : MCF7 whole cell lysates
Lane 5 : MCF7 treated with Lambda Protein Phosphatase for 30min whole cell lysates
Lysates/proteins at 20 ug per lane.
Secondary All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution
Predicted band size: 40 kDa
Observed band size: 32 kDa
Exposure time: 10 seconds



WB (Western Blot)
All lanes : Phospho-MCU(S92) Rabbit mAb at 1/1k dilution
Lane 1 : MCF7 whole cell lysates
Lane 2 : 293T whole cell lysates
Lane 3 : A549 whole cell lysates
Lane 4 : Rat Liver lysates
Lysates/proteins at 20 ug per lane.
Secondary All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution
Predicted band size: 40 kDa
Observed band size: 32 kDa
Exposure time: 8 seconds

ADDITIONAL INFORMATION

Related Product Information for anti-MCU antibody	Mitochondrial inner membrane calcium uniporter that mediates calcium uptake into mitochondria (PubMed:21685888, PubMed:21685886, PubMed:23101630, PubMed:22904319, PubMed:23178883, PubMed:22829870, PubMed:22822213, PubMed:24332854, PubMed:23755363, PubMed:26341627).
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NCBI AND UNIPROT INFORMATION

NCBI GI #	398303803
NCBI GeneID	90550
NCBI Accession #	NP_001257608.1
NCBI GenBank Nucleotide #	NM_001270679.1
UniProt Accession #	Q8NE86; Q96FL3; B2RDF3; B3KXV7
Molecular Weight	Calculated MW: 40kDa SDS-PAGE MW: 32 kDa
NCBI Official Full Name	calcium uniporter protein, mitochondrial isoform 2
NCBI Official Synonym Full Names	mitochondrial calcium uniporter
NCBI Official Symbol	MCU

NCBI Official Synonym Symbols	C10orf42; CCDC109A
NCBI Protein Information	calcium uniporter protein, mitochondrial; coiled-coil domain-containing protein 109A
UniProt Protein Name	Calcium uniporter protein, mitochondrial
UniProt Gene Name	MCU
UniProt Synonym Gene Names	C10orf42; CCDC109A
UniProt Entry Name	MCU_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/mcu-antibody-immunohistochemistry-immunofluorescence-western-blot-elisa/314883>