### For Research Use Only

# MCU/CCDC109A Polyclonal antibody

Size:

Catalog Number:26312-1-AP

Featured Product

27 Publications



**Basic Information** 

Catalog Number: 26312-1-AP

GenBank Accession Number: BC034235

GeneID (NCBI):

150ul , Concentration: 550 ug/ml by Nanodrop and 347 ug/ml by Bradford  $\,$  UNIPROT ID: method using BSA as the standard;

90550 Q8NE86

Source: Full Name: Rabbit

coiled-coil domain containing 109A Isotype Calculated MW:

35 kDa Immunogen Catalog Number: Observed MW: AG24733 30-35 kDa

**Purification Method:** Antigen affinity purification Recommended Dilutions: WB 1:2000-1:12000 IHC 1:50-1:500

**Applications** 

**Tested Applications:** WB, IHC, ELISA

**Cited Applications:** WB, IHC, IF, IP Species Specificity: human, mouse **Cited Species:** 

human, mouse, rat Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate

buffer pH 6.0

Positive Controls:

WB: HeLa cells, mouse brain tissue, rat brain tissue,

HepG2 cells

IHC: mouse kidney tissue,

## **Background Information**

MCU, also known as CCDC109A, is highly conserved across all eukaryotes. The MCU protein is composed of two coiled-coil domains, two TMDs, and a short motif of amino acids between the two TMDs. Knockdown of MCU dramatically reduces mitochondrial Ca2+ uptake in isolated mitochondria, in permeabilized cells and living cells. MCU has 3 isoforms with MW 40,37 and 35 kDa (refer to UniProt). The observed MW of MCU is mainly between 30 to 35 kDa in paper (PMID: 26341627; 28337252).

#### **Notable Publications**

Author	Pubmed ID	Journal	Application
Yun-Fei Yang	34845191	Cell Death Dis	WB
Qin Zhou	33957982	Stem Cell Res Ther	WB
Giovanni Quarato	35726022	Cell Death Differ	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

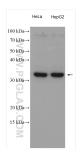
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

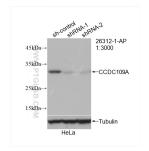
E: proteintech@ptglab.com W: ptglab.com

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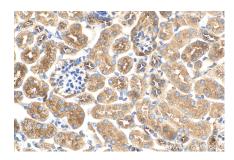
## **Selected Validation Data**



Various lysates were subjected to SDS PAGE followed by western blot with 26312-1-AP (MCU/CCDC 109A antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



WB result of MCU/CCDC109A antibody (26312-1-AP; 1:3000; incubated at room temperature for 1.5 hours) with sh-Control and sh-MCU/CCDC109A transfected HeLa cells.



Immunohistochemical analysis of paraffinembedded mouse kidney tissue slide using 26312-1-AP (MCU/CCDC109A antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).