

For Research Use Only

# MCU/CCDC109A Recombinant antibody

Catalog Number: 86274-1-RR



## Basic Information

<b>Catalog Number:</b> 86274-1-RR	<b>GenBank Accession Number:</b> BC034235	<b>Purification Method:</b> Protein A purification
<b>Concentration:</b> 1000 µg/ml	<b>GeneID (NCBI):</b> 90550	<b>CloneNo.:</b> 250879C3
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q8NE86	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000
<b>Isotype:</b> IgG	<b>Full Name:</b> coiled-coil domain containing 109A	
<b>Immunogen Catalog Number:</b> AG24733	<b>Calculated MW:</b> 35 kDa	
	<b>Observed MW:</b> 30-35 kDa	

## Applications

<b>Tested Applications:</b> WB, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human, mouse	<b>WB :</b> HeLa cells, HepG2 cells, PANC-1 cells, A549 cells, NIH/3T3 cells, mouse skeletal muscle 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 Ca<sup>2+</sup> 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).

## Storage

**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

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

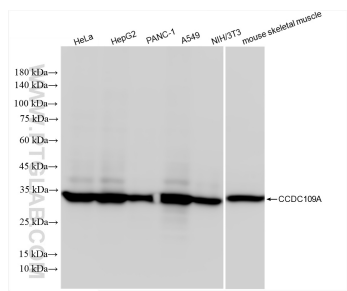
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

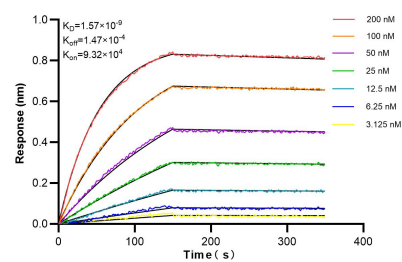
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 86274-1-RR (CCDC109A antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 86274-1-RR against Human MCU/CCDC109A were performed. The affinity constant is 1.57 nM.