

For Research Use Only

MCU/CCDC109A Recombinant antibody, PBS Only

Catalog Number: 86274-1-PBS



Basic Information

Catalog Number:

86274-1-PBS

Size:

100ug, Concentration: 1 mg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG24733

GenBank Accession Number:

BC034235

GeneID (NCBI):

90550

UNIPROT ID:

Q8NE86

Full Name:

coiled-coil domain containing 109A

Calculated MW:

35 kDa

Observed MW:

30-35 kDa

Purification Method:

Protein A purification

CloneNo.:

250879C3

Applications

Tested Applications:

WB, Indirect ELISA

Species Specificity:

human, mouse

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).

Storage

Storage:

Store at -80°C.

Storage Buffer:

PBS only, pH7.3

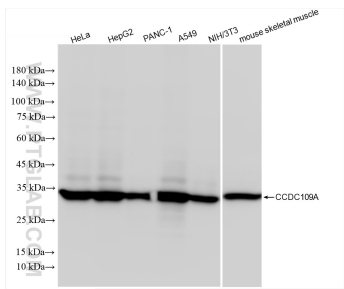
For technical support and original validation data for this product please contact:

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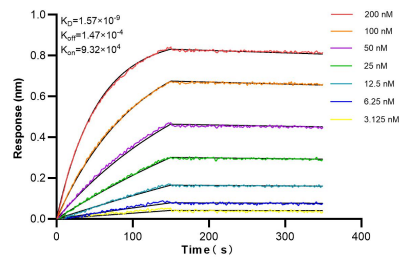
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W: ptglab.com

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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. This data was developed using the same antibody clone with 86274-1-PBS in a different storage buffer formulation.



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