

For Research Use Only

MCU/CCDC109A Recombinant antibody

Catalog Number: 86274-1-RR



Basic Information

Catalog Number:	86274-1-RR	GenBank Accession Number:	BC034235	Purification Method:	Protein A purification
Size:	100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI):	90550	CloneNo.:	250879C3
Source:	Rabbit	UNIPROT ID:	Q8NE86	Recommended Dilutions:	WB: 1:5000-1:50000
Isotype:	IgG	Full Name:	coiled-coil domain containing 109A		
Immunogen Catalog Number:	AG24733	Calculated MW:	35 kDa		
		Observed MW:	30-35 kDa		

Applications

Tested Applications:	WB, ELISA	Positive Controls:	WB : HeLa cells, HepG2 cells, PANC-1 cells, A549 cells, NIH/3T3 cells, mouse skeletal muscle tissue
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

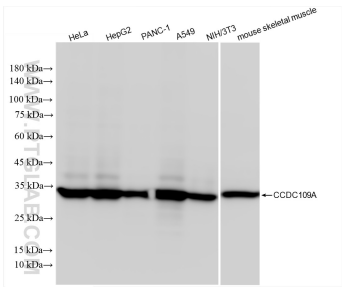
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

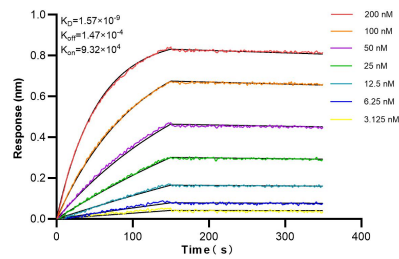
For technical support and original validation data for this product please contact:
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Selected Validation Data



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.