

For Research Use Only

UCP1 Recombinant antibody

Catalog Number: 83870-1-RR



Basic Information

Catalog Number: 83870-1-RR	GenBank Accession Number: BC098168	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 7350	CloneNo.: 240782F3
Source: Rabbit	UNIPROT ID: P25874	Recommended Dilutions: WB 1:5000-1:50000
Isotype: IgG	Full Name: uncoupling protein 1 (mitochondrial, proton carrier)	
Immunogen Catalog Number: AG20388	Calculated MW: 307 aa, 33 kDa	
	Observed MW: 33 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : mouse brown adipose tissue,
Species Specificity: human, mouse	

Background Information

UCP-1 (Mitochondrial uncoupling protein 1), is a mitochondrial transporter protein that creates proton leaks across the inner mitochondrial membrane, thus uncoupling oxidative phosphorylation from ATP synthesis. It has been identified a key molecule for metabolic thermogenesis to avoid an excess of fat accumulation. UCP-1 expression is usually restricted to brown adipose when induced by cold exposure and thyroid hormone.

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

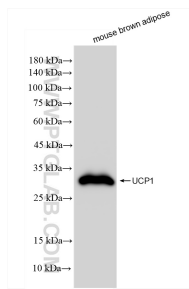
T: 4006900926

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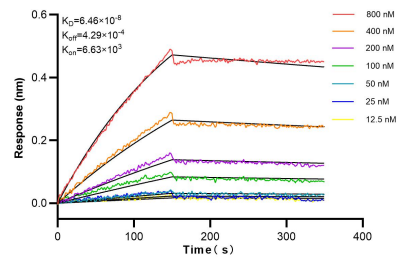
W: ptgcn.com

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Selected Validation Data



mouse brown adipose tissue were subjected to SDS PAGE followed by western blot with 83870-1-RR (UCP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



Biolayer interferometry (BLI) kinetic assays of 83870-1-RR against Human UCP1 were performed. The affinity constant is 64.6 nM.