

For Research Use Only

UCP1 Recombinant antibody, PBS Only

Catalog Number: 83870-1-PBS



Basic Information

Catalog Number:

83870-1-PBS

Concentration:

1 mg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG20388

GenBank Accession Number:

BC098168

GeneID (NCBI):

7350

UNIPROT ID:

P25874

Full Name:

uncoupling protein 1 (mitochondrial, proton carrier)

Calculated MW:

307 aa, 33 kDa

Observed MW:

33 kDa

Purification Method:

Protein A purification

CloneNo.:

240782F3

Applications

Tested Applications:

WB, IHC, IF-P, ELISA

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 -80°C.

The product is shipped with ice packs. Upon receipt, store it immediately at -80°C

Storage Buffer:

PBS Only

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

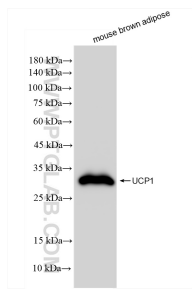
T: 4006900926

E: Proteintech-CN@ptglab.com

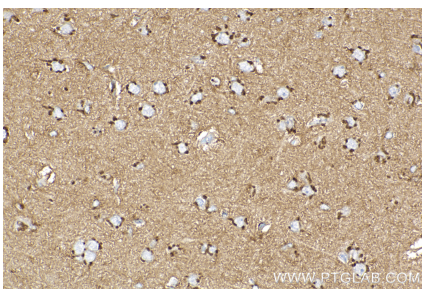
W: ptgcn.com

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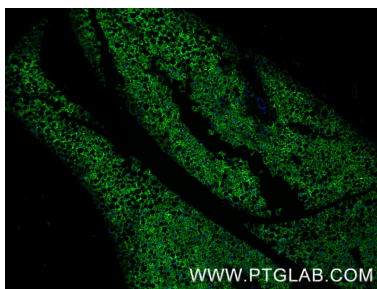
Selected Validation Data



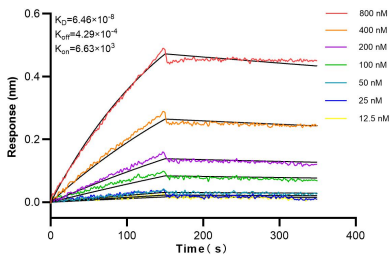
mouse brown adipose tissue were subjected to SDS PAGE followed by western blot with 83870-1-RR (UCP1 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours. This data was developed using the same antibody clone with 83870-1-PBS in a different storage buffer formulation.



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 83870-1-RR (UCP1 antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83870-1-PBS in a different storage buffer formulation.



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse brown adipose tissue using UCP1 antibody (83870-1-RR, Clone: 240782F3) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0). This data was developed using the same antibody clone with 83870-1-PBS in a different storage buffer formulation.



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