

For Research Use Only

UCP1 Polyclonal antibody

Catalog Number: 32710-1-AP



Basic Information

| | | |
|---|---|--|
| Catalog Number: 32710-1-AP | GenBank Accession Number: BC012701 | Purification Method: Antigen affinity Purification |
| Concentration: 350 ug/ml | GeneID (NCBI): 22227 | Recommended Dilutions: WB 1:500-1:3000 IHC 1:50-1:500 |
| Source: Rabbit | UNIPROT ID: P12242 | |
| Isotype: IgG | Full Name: uncoupling protein 1 (mitochondrial, proton carrier) | |
| Immunogen Catalog Number: AG38217 | Observed MW: 35 kDa | |

Applications

| | |
|--|---|
| Tested Applications: WB, IHC, ELISA | Positive Controls: |
| Species Specificity: mouse | WB : mouse brown adipose tissue, IHC : mouse brown adipose tissue, |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | |

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, pH7.3
Aliquoting is unnecessary for -20°C storage

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

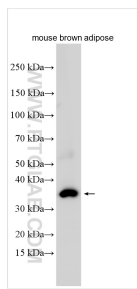
T: 4006900926

E: Proteintech-CN@ptglab.com

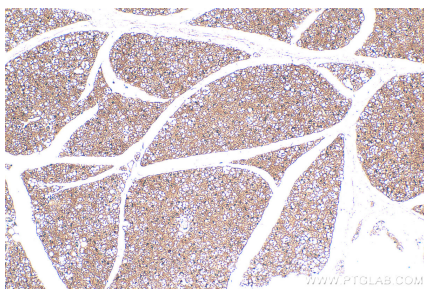
W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

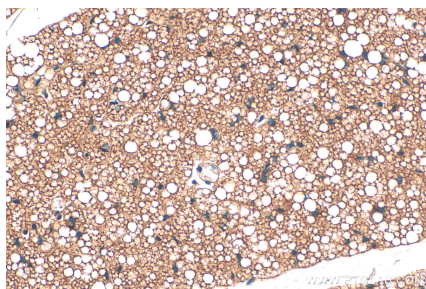
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 32710-1-AP (Ucp1 antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse brown adipose tissue slide using 32710-1-AP (Ucp1 antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse brown adipose tissue slide using 32710-1-AP (Ucp1 antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).