

UCP1 Rabbit mAb

Catalog No.: A27158 **Recombinant**

Basic Information

Observed MW

33 kDa

Calculated MW

33kDa

Category

Primary antibody

Applications

WB,IHC-P,IP,ELISA

Cross-Reactivity

Mouse, Rat

CloneNo number

ARC3327

Background

Enables long-chain fatty acid binding activity; oxidative phosphorylation uncoupler activity; and purine ribonucleotide binding activity. Involved in several processes, including cellular response to cold; diet induced thermogenesis; and positive regulation of cold-induced thermogenesis. Acts upstream of or within brown fat cell differentiation and regulation of transcription by RNA polymerase II. Located in mitochondrial inner membrane. Is expressed in several structures, including adipose tissue; adrenal gland; submandibular gland; testis; and thymus. Human ortholog(s) of this gene implicated in hypertension and type 2 diabetes mellitus. Orthologous to human UCP1 (uncoupling protein 1).

Recommended Dilutions

WB 1:5000 - 1:50000**IHC-P** 1:500 - 1:2000**IP** 0.5µg-4µg antibody for
200µg-400µg extracts of
whole cells**ELISA** Recommended starting
concentration is 1 µg/mL.
Please optimize the
concentration based on
your specific assay
requirements.

Immunogen Information

Gene ID

22227

Swiss Prot

P12242

Immunogen

Synthetic peptide. This information is considered to be commercially sensitive.

Synonyms

Ucp; Slc25a7

Contact

 | 400-999-6126 | cn.market@abclonal.com.cn | www.abclonal.com.cn

Product Information

Source

Rabbit

Isotype

IgG

Purification

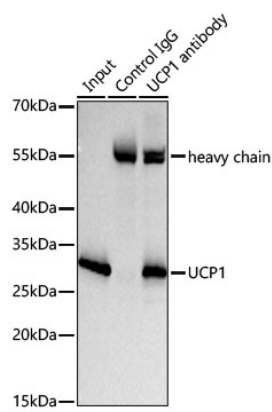
Affinity purification

Storage

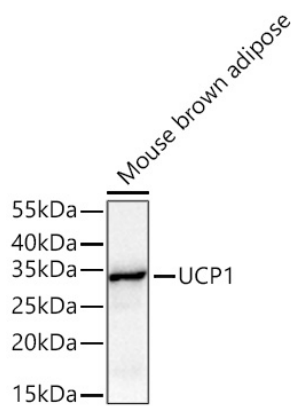
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol and 0.05% BSA, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

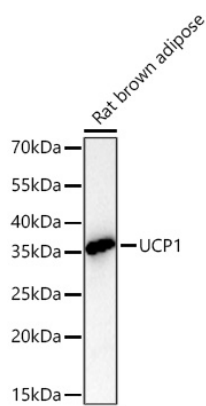
Validation Data



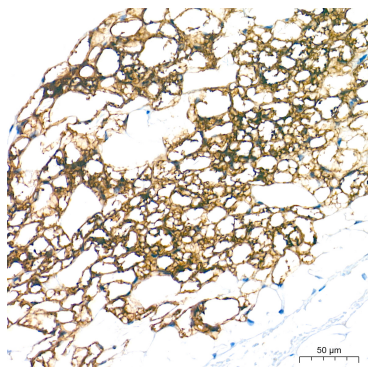
Immunoprecipitation of UCP1 from 300 µg extracts of Mouse brown adipose tissue was performed using 1 µg of UCP1 Rabbit mAb (A27158). Rabbit Control IgG (AC005) was used to precipitate the Control IgG sample. IP samples were eluted with 1X Laemmli Buffer. The Input lane represents 10% of the total input. Western blot analysis of immunoprecipitates was conducted using UCP1 Rabbit mAb (A27158) at a dilution of 1 : 5000.



Western blot analysis of lysates from Mouse brown adipose using UCP1 Rabbit mAb (A27158) at 1:5000 dilution incubated at room temperature for 1.5 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 0.5s.



Western blot analysis of lysates from Rat brown adipose using UCP1 Rabbit mAb (A27158) at 1:5000 dilution incubated at room temperature for 1.5 hours.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25 µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 45s.



Immunohistochemistry analysis of paraffin-embedded Rat brown adipose tissue using UCP1 Rabbit mAb (A27158) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.