

UCP1 polyclonal antibody

Catalog: BS70689

Host: Rabbit

Reactivity: Mouse, Rat

BackGround:

Uncoupling protein 1 (UCP1) is a mitochondrial inner membrane transport protein that is primarily expressed in brown adipose tissue (BAT). UCP1 dissipates the pH gradient resulting from oxidative phosphorylation, which uncouples ATP synthesis from oxidative phosphorylation and leads to the release of heat energy. As a result, UCP1 plays an important role in thermogenesis. Research studies indicate that subcutaneous white adipose depots in mice contain beige adipocytes that express low levels of UCP1 protein. Additional studies show possible differences in thermogenesis in individuals carrying specific polymorphisms in the corresponding UCP1 gene. Related studies link UCP1 to the possible development of obesity and type 2 diabetes.

Product:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

Molecular Weight:

~ 30 kDa

Swiss-Prot:

P25874

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:2000

IHC: 1:50~1:200

IF: 1:50~1:100

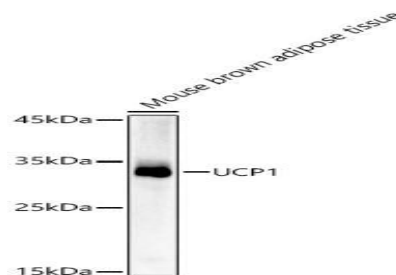
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

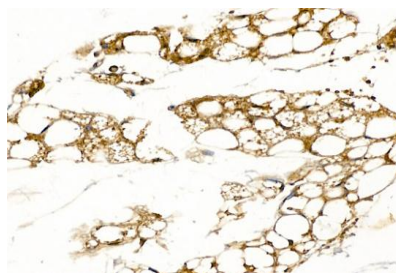
Specificity:

UCP1 polyclonal antibody detects endogenous levels of UCP1 protein.

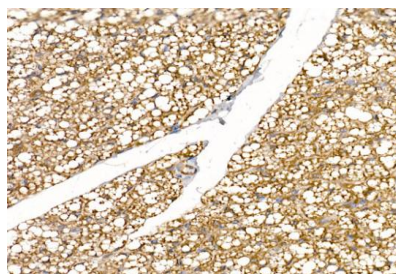
DATA:



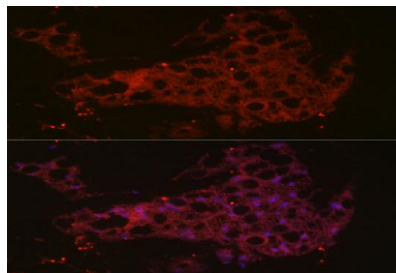
Western blot analysis of extracts of various cell lines, using UCP1 antibody at 1:710 dilution.



Immunohistochemistry of paraffin-embedded mouse brown adipose using UCP1 pAb at dilution of 1:50 (40x lens).



Immunohistochemistry of paraffin-embedded rat brown adipose using UCP1 pAb at dilution of 1:50 (40x lens).



Immunofluorescence analysis of mouse brown adipose cells using

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PRODUCT DATA SHEET

Bioworld Technology, Inc.

UCP1 pAb at dilution of 1:50 (40x lens).

For research use only, not for use in diagnostic procedure.

Note:

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