

Anti-UCP3 antibody ab180643

[4 References](#) [2 Images](#)

Overview

Product name	Anti-UCP3 antibody
Description	Rabbit polyclonal to UCP3
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant fragment corresponding to Human UCP3 aa 1-110. Sequence: MVGLKPSDVPPTMAVKFLGAGTAACFADLVTFPLDTAKV RLQIQGENQAV QTARLVQYRGVLGTLTMVRTEGPCSPYNGLVAGLQRQMS FASIRIGLYD SVKQVYTPKG

Database link: [P55916](#)

 [Run BLAST with](#)

 [Run BLAST with](#)

General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol, 49% PBS
Purity	Immunogen affinity purified

Clonality	Polyclonal
Isotype	IgG

Applications

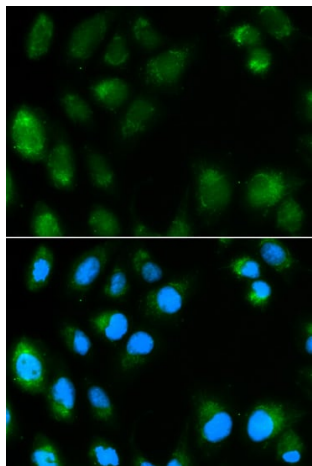
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab180643 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/2000. Predicted molecular weight: 34 kDa.
ICC/IF		Use at an assay dependent concentration.

Target

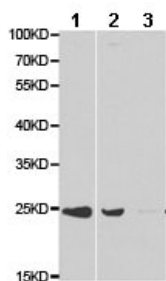
Function	UCP are mitochondrial transporter proteins that create proton leaks across the inner mitochondrial membrane, thus uncoupling oxidative phosphorylation. As a result, energy is dissipated in the form of heat. May play a role in the modulation of tissue respiratory control. Participates in thermogenesis and energy balance.
Tissue specificity	Only in skeletal muscle and heart. Is more expressed in glycolytic than in oxidative skeletal muscles.
Involvement in disease	Defects in UCP3 may be involved in obesity (OBESITY) [MIM:601665]. It is a condition characterized by an increase of body weight beyond the limitation of skeletal and physical requirements, as the result of excessive accumulation of body fat.
Sequence similarities	Belongs to the mitochondrial carrier family. Contains 3 Solcar repeats.
Cellular localization	Mitochondrion inner membrane.
Form	UCP3 is preferentially expressed in muscle

Images



Immunocytochemistry/Immunofluorescence analysis of MCF7 cells using ab180643. Blue DAPI for nuclear staining.

Immunocytochemistry/ Immunofluorescence - Anti-UCP3 antibody (ab180643)



All lanes : Anti-UCP3 antibody (ab180643) at 1/500 dilution

Lane 1 : mouse testis cell line extract

Lane 2 : mouse liver cell line extract

Lane 3 : mouse lung cell line extract

Predicted band size: 34 kDa

Western blot - Anti-UCP3 antibody (ab180643)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors