

Anti-UCP3 antibody ab10985

★★★★★ [1 Abreviews](#) [20 References](#) [1 Image](#)

Overview

Product name	Anti-UCP3 antibody
Description	Rabbit polyclonal to UCP3
Host species	Rabbit
Tested applications	Suitable for: IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide corresponding to Human UCP3 aa 254-267 conjugated to keyhole limpet haemocyanin. Database link: P55916
General notes	<p>Storage in frost-free freezers is also not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilution samples should be discarded if not used within 12 hours.</p> <p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.097% Sodium azide Constituents: 0.0268% PBS, 0.1% BSA
Purity	Immunogen affinity purified
Purification notes	The antibody is affinity-purified using the immunogen peptide immobilized on agarose.
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab10985 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
IHC-P		1/3000.

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.

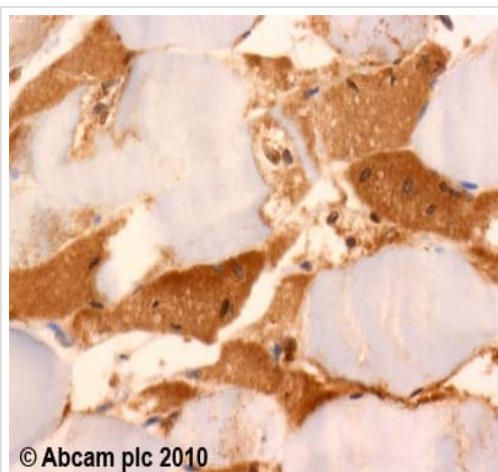
Cellular localization

Mitochondrion inner membrane.

Form

UCP3 is preferentially expressed in muscle

Images



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Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-UCP3 antibody (ab10985)

ab10985 (2µg/ml) staining UCP3 in human skeletal muscle using an automated system (DAKO Autostainer Plus). Using this protocol there is strong cytoplasmic staining of myocytes.

Sections were rehydrated and antigen retrieved with the Dako 3 in 1 AR buffer EDTA pH 9.0 in a DAKO PT link. Slides were peroxidase blocked in 3% H₂O₂ in methanol for 10 mins. They were then blocked with Dako Protein block for 10 minutes (containing casein 0.25% in PBS) then incubated with primary antibody for 20 min and detected with Dako Envision Flex amplification kit for 30 minutes. Colorimetric detection was completed with Diaminobenzidine for 5 minutes. Slides were counterstained with Haematoxylin and coverslipped under DePeX.

Please note that, for manual staining, optimization of primary antibody concentration and incubation time is recommended.

Signal amplification may be required.

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