



Product datasheet

Anti-UCP3 antibody ab180643

2 Images

Overview

Product name	Anti-UCP3 antibody
Description	Rabbit polyclonal to UCP3
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	<p>Recombinant fragment corresponding to Human UCP3 aa 1-110. Sequence:</p> <p>MVGLKPSDVPPTMAVKFLGAGTAACFADLVTFPLDTA KVRLQIQGENQAV QTARLVQYRGVLTILTMVRTEGPCSPYNGLVAGLQRQ MSFASIRIGLYD SVKQVYTPKG</p> <p>Database link: P55916</p> <p style="text-align: right;"> Run BLAST with  Run BLAST with</p>
Positive control	Mouse testis, mouse liver and mouse lung cell line extracts.

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	<p>pH: 7.3 Preservative: 0.02% Sodium azide Constituents: 50% Glycerol, 49% PBS</p>
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab180643** in the following tested applications.

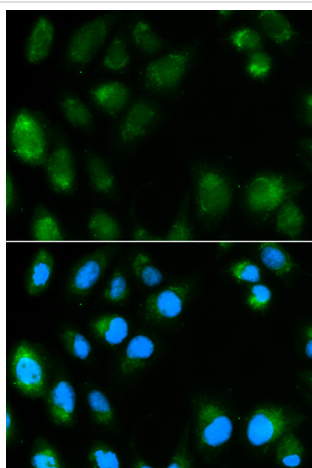
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/2000. Predicted molecular weight: 34 kDa.
IHC-P		1/50 - 1/200.
ICC/IF		Use at an assay dependent concentration.

Target

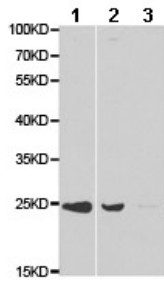
Function	UCP are mitochondrial transporter proteins that create proton leaks across the inner mitochondrial membrane, thus uncoupling oxidative phosphorylation. As a result, energy is dissipated in the form of heat. May play a role in the modulation of tissue respiratory control. Participates in thermogenesis 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)



Western blot - 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

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

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