


## Product datasheet

# Anti-UCP2 antibody ab97931

★★★★★ [5 Abreviews](#) [29 References](#) [2 Images](#)

### Overview

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<b>Product name</b>	Anti-UCP2 antibody
<b>Description</b>	Rabbit polyclonal to UCP2
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Hamster, Cat, Dog, Pig, Orangutan 
<b>Immunogen</b>	Synthetic peptide corresponding to Human UCP2 aa 250 to the C-terminus conjugated to keyhole limpet haemocyanin. (Peptide available as <a href="#">ab107707</a> )
<b>Positive control</b>	This antibody gave a positive signal in Human Adipose and Spleen Tissue Lysates and FFPE human lymph node tissue sections.
<b>General notes</b>	<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&amp;As</p>

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS

Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.

<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab97931 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		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB	★ ★ ★ ★ ★ (4)	Use at an assay dependent concentration. Detects a band of approximately 30 kDa (predicted molecular weight: 33 kDa).

## Target

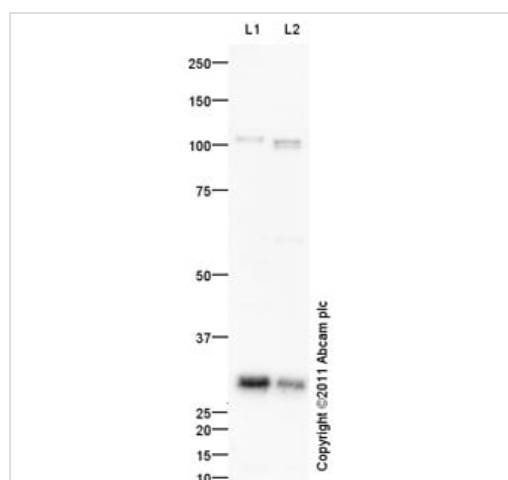
**Function** UCP are mitochondrial transporter proteins that create proton leaks across the inner mitochondrial membrane, thus uncoupling oxidative phosphorylation from ATP synthesis. As a result, energy is dissipated in the form of heat.

**Tissue specificity** Widely expressed in adult human tissues, including tissues rich in macrophages. Most expressed in white adipose tissue and skeletal muscle.

**Sequence similarities** Belongs to the mitochondrial carrier family. Contains 3 Solcar repeats.

**Cellular localization** Mitochondrion inner membrane.

## Images



Western blot - Anti-UCP2 antibody (ab97931)

**All lanes** : Anti-UCP2 antibody (ab97931) at 1 µg/ml

**Lane 1** : Human adipose normal tissue lysate - total protein (**ab28980**)

**Lane 2** : Human spleen tissue lysate - total protein (**ab29699**)

Lysates/proteins at 10 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed (**ab97080**) at 1/5000 dilution

Developed using the ECL technique.

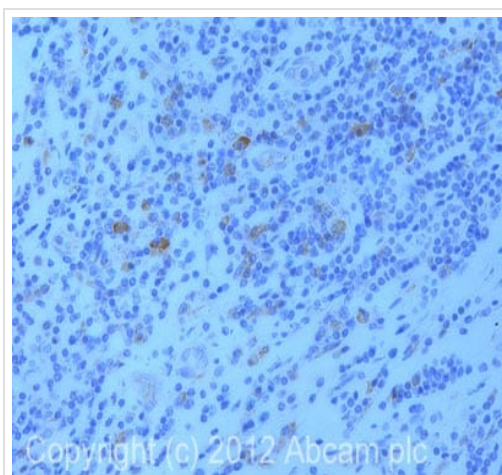
Performed under reducing conditions.

**Predicted band size:** 33 kDa

**Observed band size:** 30 kDa

**Additional bands at:** 100 kDa. We are unsure as to the identity of these extra bands.

**Exposure time:** 3 minutes



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-UCP2 antibody (ab97931)

IHC image of ab97931 staining in human lymph node formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab97931, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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

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