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Datasheet for ABIN7010870

## anti-UCP1 antibody

### 3 Images

#### Overview

Quantity:	60 µL
Target:	UCP1
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This UCP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

#### Product Details

Immunogen:	Recombinant fusion protein of human UCP1 (NP_068605.1).
Isotype:	IgG
Characteristics:	Polyclonal Antibody
Purification:	Affinity purification

#### Target Details

Target:	UCP1
Alternative Name:	UCP1 ( <a href="#">UCP1 Products</a> )
Background:	Mitochondrial uncoupling proteins (UCP) are members of the family of mitochondrial anion carrier proteins (MACP). UCPs separate oxidative phosphorylation from ATP synthesis with energy dissipated as heat, also referred to as the mitochondrial proton leak. UCPs facilitate the transfer of anions from the inner to the outer mitochondrial membrane and the return transfer

## Target Details

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of protons from the outer to the inner mitochondrial membrane. They also reduce the mitochondrial membrane potential in mammalian cells. Tissue specificity occurs for the different UCPs and the exact methods of how UCPs transfer H<sup>+</sup>/OH<sup>-</sup> are not known. UCPs contain the three homologous protein domains of MACPs. This gene is expressed only in brown adipose tissue, a specialized tissue which functions to produce heat.

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Molecular Weight:	Observed_MW: 33 kDa Calculated_MW: 33 kDa
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Gene ID:	7350
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UniProt:	<a href="#">P25874</a>
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Pathways:	<a href="#">Proton Transport, Brown Fat Cell Differentiation</a>
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## Application Details

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Application Notes:	WB 1:500-1:2000 IHC 1:50-1:200 IF 1:50-1:200
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Restrictions:	For Research Use only
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## Handling

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Format:	Liquid
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Concentration:	1 mg/mL
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Buffer:	PBS with 0.02 % sodium azide, 50 % glycerol, pH 7.3
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Preservative:	Sodium azide
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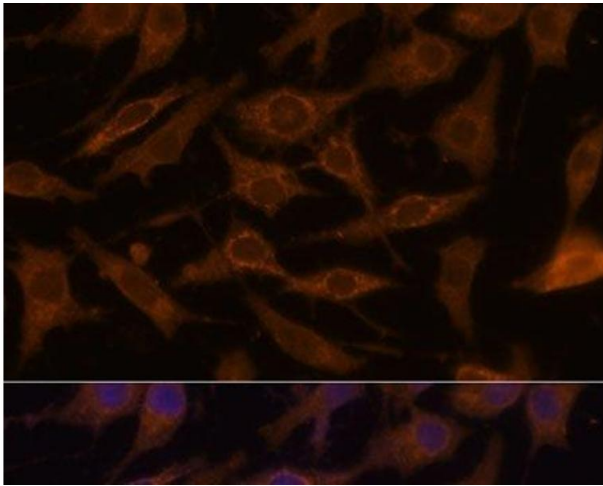
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
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Storage:	-20 °C
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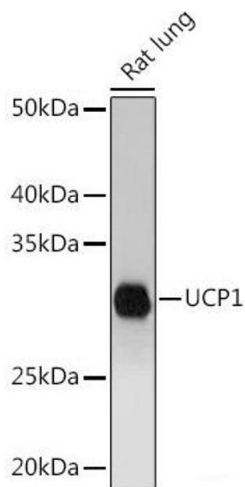
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Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.
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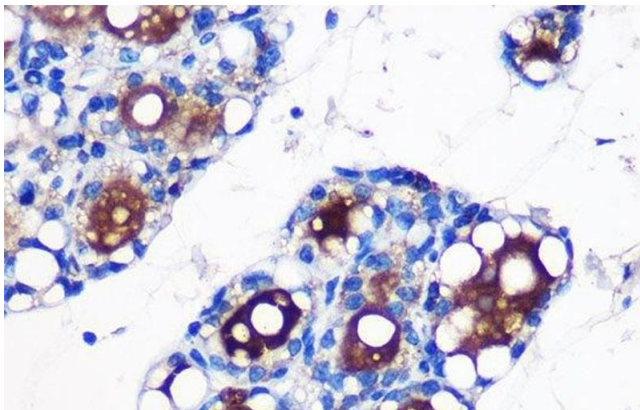
### Immunofluorescence

**Image 1.** Immunofluorescence analysis of L929 cells using UCP1 Polyclonal Antibody at dilution of 1:100. Blue: DAPI for nuclear staining.



### Western Blotting

**Image 2.** Western blot analysis of extracts of Rat lung using UCP1 Polyclonal Antibody at dilution of 1:1000.



### Immunohistochemistry (Paraffin-embedded Sections)

**Image 3.** Immunohistochemistry of paraffin-embedded Rat fat using UCP1 Polyclonal Antibody at dilution of 1:100 (40x lens).