

Datasheet for ABIN3022086  
**anti-UCP3 antibody (AA 1-110)**[Go to Product page](#)

## 3 Images

## Overview

Quantity:	100 µL
Target:	UCP3
Binding Specificity:	AA 1-110
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This UCP3 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-110 of human UCP3 (NP_073714.1).
Sequence:	MVGLKPSDVP PTMAVKFLGA GTAACFADLV TFPLDTAKVR LQIQGENQAV QTARLVQYRG VLGTILTMVR TEGPCSPYNG LVAGLQRQMS FASIRIGLYD SVKQVYTPKG
Isotype:	IgG
Cross-Reactivity:	Human, Mouse
Characteristics:	Polyclonal Antibodies

## Target Details

Target:	UCP3
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## Target Details

Alternative Name:	UCP3 ( <a href="#">UCP3 Products</a> )
Background:	Mitochondrial uncoupling proteins (UCP) are members of the larger 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 of protons from the outer to the inner mitochondrial membrane. They also reduce the mitochondrial membrane potential in mammalian cells. The different UCPs have tissue-specific expression, this gene is primarily expressed in skeletal muscle. This gene's protein product is postulated to protect mitochondria against lipid-induced oxidative stress. Expression levels of this gene increase when fatty acid supplies to mitochondria exceed their oxidation capacity and the protein enables the export of fatty acids from mitochondria. UCPs contain the three solcar protein domains typically found in MACPs. Two splice variants have been found for this gene.,UCP3,SLC25A9,Cancer,Signal Transduction,Endocrine & Metabolism,Mitochondrial metabolism,Mitochondrial markers,Endocrine and metabolic diseases,Diabetes,Obesity,Neuroscience,Cardiovascular,Hypoxia,Lipids,Fatty Acids,UCP3
Molecular Weight:	22 kDa/29 kDa/34 kDa
Gene ID:	7352
UniProt:	<a href="#">P55916</a>
Pathways:	<a href="#">Proton Transport</a>

## Application Details

Application Notes:	WB,1:500 - 1:2000
Restrictions:	For Research Use only

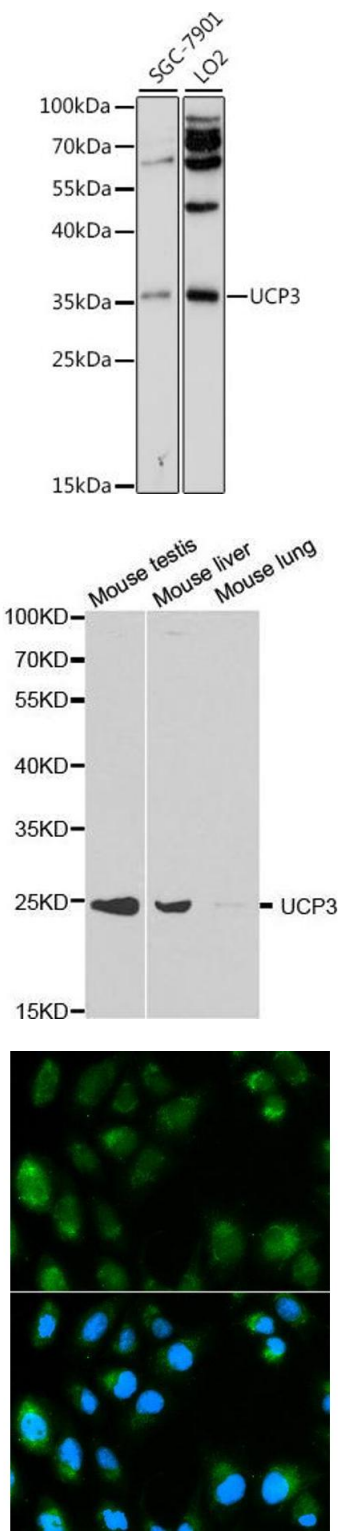
## Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid freeze / thaw cycles

Handling

Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



Western Blotting

**Image 1.** Western blot analysis of extracts of various cell lines, using UCP3 antibody (ABIN3022085, ABIN3022086, ABIN3022087, ABIN1513663 and ABIN6218600) at 1:500 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (ABIN1684268 and ABIN3020597) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3 % nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 90s.

Western Blotting

**Image 2.** Western blot analysis of extracts of various cell lines, using UCP3 antibody.

Immunofluorescence

**Image 3.** Immunofluorescence analysis of MCF7 cell using UCP3 antibody. Blue: DAPI for nuclear staining.