# ANTIBODIES ONLINE

## Datasheet for ABIN6149883 anti-UCP1 antibody (AA 1-307)

Images



Overview

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Overview	
Quantity:	100 µL
Target:	UCP1
Binding Specificity:	AA 1-307
Reactivity:	Human
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 containing a sequence corresponding to amino acids 1-307 of human UCP1 (NP_068605.1).
Sequence:	MGGLTASDVH PTLGVQLFSA GIAACLADVI TFPLDTAKVR LQVQGECPTS SVIRYKGVLG TITAVVKTEG RMKLYSGLPA GLQRQISSAS LRIGLYDTVQ EFLTAGKETA PSLGSKILAG LTTGGVAVFI GQPTEVVKVR LQAQSHLHGI KPRYTGTYNA YRIIATTEGL TGLWKGTTPN LMRSVIINCT ELVTYDLMKE AFVKNNILAD DVPCHLVSAL IAGFCATAMS SPVDVVKTRF INSPPGQYKS VPNCAMKVFT NEGPTAFFKG LVPSFLRLGS WNVIMFVCFE QLKRELSKSR QTMDCAT
lsotype:	lgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies

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### Target Details

Target:	UCP1
Alternative Name:	UCP1 (UCP1 Products)
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
	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+/OH- 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.,UCP1,SLC25A7,UCP,Cancer,Signal Transduction,Endocrine & Metabolism,Mitochondrial
	metabolism,Mitochondrial markers,Lipid Metabolism,Endocrine and metabolic
	diseases,Obesity,Neuroscience,Neurodegenerative Diseases,UCP1
Molecular Weight:	33 kDa
Gene ID:	7350
UniProt:	P25874
Pathways:	Proton Transport, Brown Fat Cell Differentiation
Application Details	

Application Notes:	WB,1:500 - 1:2000,IHC,1:50 - 1:200,IF,1:50 - 1:200
Comment:	HIGH QUALITY
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.
Storage:	-20 °C

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### Images





#### Immunofluorescence

**Image 1.** Immunofluorescence analysis of mouse brown adipose cells using UCP1 Rabbit pAb (ABIN6128899, ABIN6149883, ABIN6149885 and ABIN6221561) at dilution of 1:50 (40x lens). Blue: DAPI for nuclear staining.

Western Blotting

**Image 2.** Western blot analysis of extracts of various cell lines, using UCP1 antibody.



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#### Western Blotting

**Image 3.** Diphyllin enhances brown/beige thermogenesis and reduces adipocyte size in DIO mice. (A-C) Relative mRNA levels of the indicated genes after diphyllin treatment in iBAT, iWAT and eWAT (n=6). (D-F) Western blot analysis and relative integrated density of UCP1 protein in iBAT, iWAT, and eWAT of DIO mice after treatment (n=6). (G-I) Representative HE staining images and statistical diagram of the cell surface of BAT, iWAT, and eWAT. Scale bar = 100  $\mu$ m for x10. \*p < 0.05, \*\*p < 0.01, and \*\*\*p < 0.001. - figure provided by CiteAb. Source: PMID33424769

Please check the product details page for more images. Overall 7 images are available for ABIN6149883.

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