

Datasheet for ABIN2789412
anti-UCP1 antibody (N-Term)



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Overview

Quantity:	100 µL
Target:	UCP1
Binding Specificity:	N-Term
Reactivity:	Human, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This UCP1 antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Sequence:	GLPAGLQRQI SSASLRIGLY DTVQEFLTAG KETAPSLGSK ILAGLTTGGV
Predicted Reactivity:	Human: 100%, Rabbit: 85%
Characteristics:	This is a rabbit polyclonal antibody against UCP1. It was validated on Western Blot.
Purification:	Affinity Purified

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

Target Details

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.

Alias Symbols: SLC25A7, UCP

Protein Interaction Partner: CIDEA, TOMM20,

Protein Size: 307

Molecular Weight: 34 kDa

Gene ID: 7350

NCBI Accession: [NM_021833](#), [NP_068605](#)

UniProt: [P25874](#)

Pathways: [Proton Transport](#), [Brown Fat Cell Differentiation](#)

Application Details

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

Comment: Antigen size: 307 AA

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: Lot specific

Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

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 repeated freeze-thaw cycles.

Handling

Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Rabbit Anti-UCP1 Antibody
Catalog Number: ARP63204
Lot Number: QC34106
Lane: Jurkat Cell Lysate

Antibody Titration: 1.0µg/ml
Gel Concentration: 12%

Western Blotting

Image 1.