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Datasheet for ABIN7043873

anti-UCP2 antibody (Intracellular)

3 Images

Overview

Quantity:	25 µL
Target:	UCP2
Binding Specificity:	AA 153-164, Intracellular
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This UCP2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunocytochemistry (ICC), Immunofluorescence (IF)

Product Details

Immunogen:	Immunogen: Synthetic peptide Immunogen Sequence: (C)GRRYQSTVEAYK, corresponding to amino acid residues 153-164 of rat mitochondrial uncoupling protein 2 (UCP2)
Isotype:	IgG
Characteristics:	Anti-UCP2 Antibody is directed against an epitope of the rat mitochondrial uncoupling protein 2 (UCP2). Anti-UCP2 Antibody (ABIN7043330, ABIN7044787 and ABIN7044788)) can be used in western blot and immunocytochemistry applications. It has been designed to recognize UCP2 from human, rat and mouse samples.
Purification:	Affinity purified on immobilized antigen.

Target Details

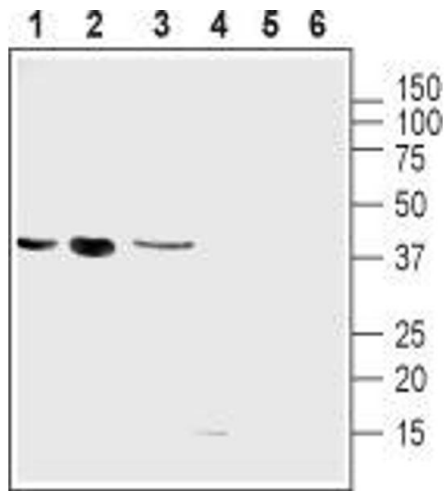
Target:	UCP2
Alternative Name:	UCP2 (UCP2 Products)
Background:	Alternative names: UCP2, Mitochondrial uncoupling protein 2, UCPH, Solute carrier family 25 member 8, SLC25A8, BMIQ4
Gene ID:	54315
NCBI Accession:	NM_003355
UniProt:	P56500
Pathways:	Negative Regulation of Hormone Secretion , Carbohydrate Homeostasis , Proton Transport

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

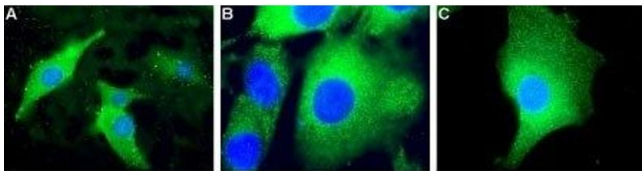
Handling

Format:	Lyophilized
Reconstitution:	25 μ L, 50 μ L or 0.2 mL double distilled water (DDW), depending on the sample size.
Concentration:	0.85 mg/mL
Buffer:	Reconstituted antibody contains phosphate buffered saline (PBS), pH 7.4, 1 % BSA, 0.05 % Sodium azide.
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:	RT, 4 °C, -20 °C
Storage Comment:	Storage before reconstitution: The antibody ships as a lyophilized powder at room temperature. Upon arrival, it should be stored at -20°C. Storage after reconstitution: The reconstituted solution can be stored at 4°C for up to 1 week. For longer periods, small aliquots should be stored at -20°C. Avoid multiple freezing and thawing. Centrifuge all antibody preparations before use (10000 x g 5 min).



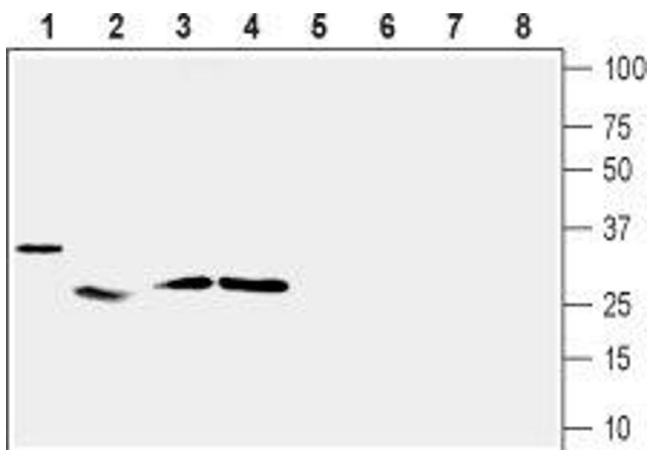
Western Blotting

Image 1. Western blot analysis of mouse muscle myoblast (C2C12), human brain glioblastoma (U-87 MG), human colorectal adenocarcinoma (HT-29) cell lines: - 1-3. Anti-UCP2 Antibody (ABIN7043873, ABIN7044839 and ABIN7044840), (1:200). 4-6. Anti-UCP2 Antibody, preincubated with UCP2 Blocking Peptide (#BLP-NT128).



Immunocytochemistry

Image 2. Expression of Mitochondrial uncoupling protein 2 (UCP2) in mouse C2C12 cells. - Immunocytochemical staining of mouse muscle myoblast (C2C12) fixed, permeabilized cells. Intracellular staining of cells with Anti-UCP2 Antibody (ABIN7043873, ABIN7044839 and ABIN7044840), (green), (1:50-1:200) followed by goat anti-rabbit-AlexaFluor-488 secondary antibody. A. Magnitude 1x40 (1:50). B-C. Magnitude 1x100 (1:200). DAPI is used as the counterstain (blue).



Western Blotting

Image 3. Western blot analysis of mouse heart (lanes 1 and 5), rat skeletal muscle (lanes 2 and 6), rat adipose tissue (lanes 3 and 7) and rat pancreas (lanes 4 and 8): - 1-4. Anti-UCP2 Antibody (ABIN7043873, ABIN7044839 and ABIN7044840), (1:200). 5-8. Anti-UCP2 Antibody, preincubated with UCP2 Blocking Peptide (#BLP-NT128).