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Datasheet for ABIN675428

anti-UCP2 antibody (AA 201-309)

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Overview

Quantity:	100 µL
Target:	UCP2
Binding Specificity:	AA 201-309
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This UCP2 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from Mouse UCP-2 (Mitochondrial intermembrane space domain)
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Predicted Reactivity:	Pig,Horse,Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	UCP2
Alternative Name:	UCP-2 (UCP2 Products)
Background:	Synonyms: Slc25a8, Mitochondrial uncoupling protein 2, UCP 2, Solute carrier family 25 member 8, UCPH, Ucp2 Background: UCP are mitochondrial transporter proteins that create proton leaks across the inner mitochondrial membrane, thus uncoupling oxidative phosphorylation from ATP synthesis. As a result, energy is dissipated in the form of heat (By similarity).
Gene ID:	22228
UniProt:	P70406
Pathways:	Negative Regulation of Hormone Secretion , Carbohydrate Homeostasis , Proton Transport

Application Details

Application Notes:	WB 1:300-5000 ELISA 1:500-1000 FCM 1:20-100 IHC-P 1:200-400 IHC-F 1:100-500 IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 µg/µL
Buffer:	0.01M TBS(pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

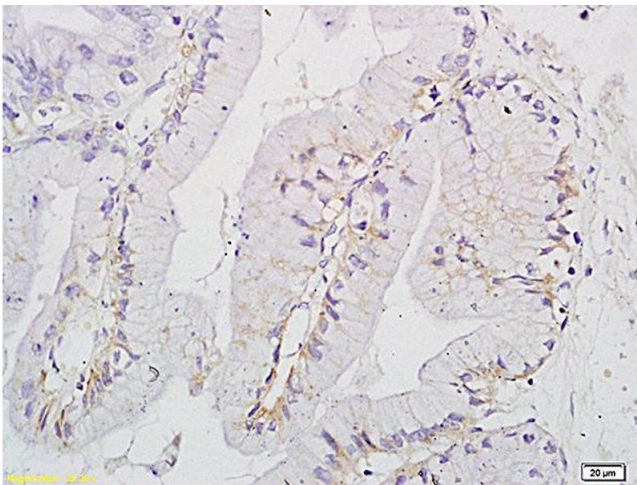
Expiry Date: 12 months

Publications

Product cited in: Bo, Xie, Guo, Zhang, Guan, Li, Lu, Meng: "Methylglyoxal Impairs Insulin Secretion of Pancreatic β -Cells through Increased Production of ROS and Mitochondrial Dysfunction Mediated by Upregulation of UCP2 and MAPKs." in: **Journal of diabetes research**, Vol. 2016, pp. 2029854, (2016) ([PubMed](#)).

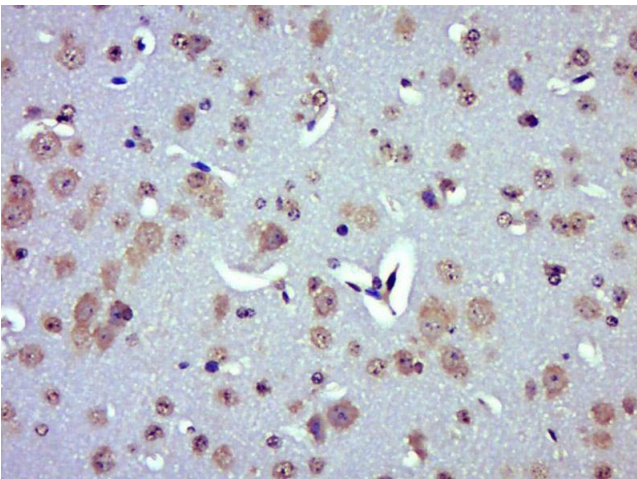
Chuang, Lin, Huang, Chang, Liou, Chen, Chang, Chan et al.: "Peroxisome proliferator-activated receptors γ /mitochondrial uncoupling protein 2 signaling protects against seizure-induced neuronal cell death in the hippocampus following experimental status ..." in: **Journal of neuroinflammation**, Vol. 9, pp. 184, (2012) ([PubMed](#)).

Images



Immunohistochemistry

Image 1. Formalin-fixed and paraffin embedded human endometrium labeled with Anti-UCP-2 Polyclonal Antibody, Unconjugated (ABIN675428) at 1:400 followed by conjugation to the secondary antibody and DAB staining



Immunohistochemistry (Paraffin-embedded Sections)

Image 2. Paraformaldehyde-fixed, paraffin embedded Mouse brain Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes Blocking buffer (normal goat serum) at 37°C for 30min Antibody incubation with UCP-2 Polyclonal Antibody, Unconjugated at 1:400 overnight at 4°C, DAB staining.