

UCP-2 Rabbit pAb

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Catalog # AP52232

Product Information

Application	WB, IHC-P, IHC-F, IF
Reactivity	Rat, Human, Mouse
Predicted	Pig, Rabbit, Horse
Host	Rabbit
Clonality	Polyclonal
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from mouse UCP-2
Epitope Specificity	201-309/309
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Mitochondrion inner membrane; Multi-pass membrane protein.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. UCP2 gene is expressed in many tissues, with the greatest expression in skeletal muscle. UCP2 is thought to play a role in non shivering thermogenesis, obesity and diabetes.

Additional Information

Other Names	Slc25a8; Mitochondrial uncoupling protein 2; UCP 2; Solute carrier family 25 member 8; UCPH; Ucp2
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,Flow-Cyt=1 μ g /test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

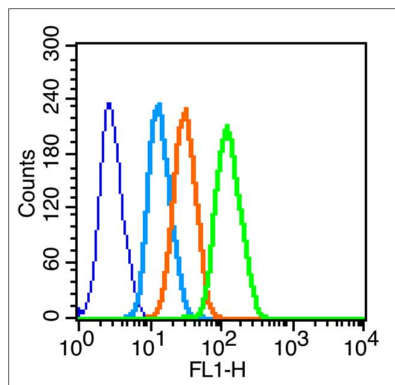
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References

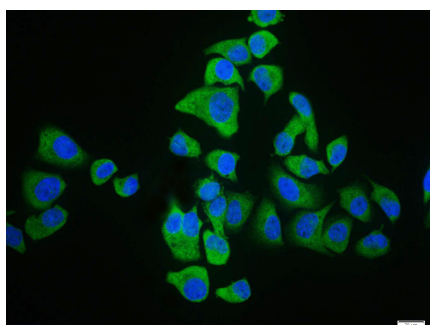
Raimbault S.,et al.Submitted (SEP-1996) to the EMBL/GenBank/DDBJ databases.
 Gimeno R.E.,et al.Diabetes 46:900-906(1997).
 Yamada M.,et al.FEBS Lett. 432:65-69(1998).
 Berardi M.J.,et al.Nature 476:109-113(2011).

Images

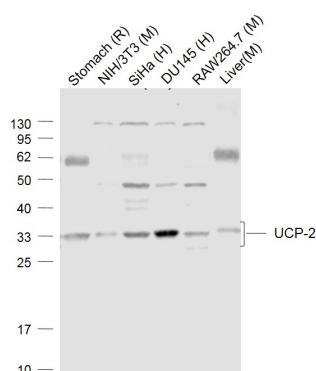


Blank control (blue line): Hela (blue).
 Primary Antibody (green line): Rabbit Anti-UCP-2 antibody (AP52232)
 Dilution: 1 µg /10⁶ cells;
 Isotype Control Antibody (orange line): Rabbit IgG .
 Secondary Antibody (white blue line): F(ab')₂ fragment goat anti-rabbit IgG-FITC
 Dilution: 1 µg /test.
 Protocol

The cells were fixed with 2% paraformaldehyde (10 min) , then permeabilized with 90% ice-cold methanol for 30 min on ice.Cells stained with Primary Antibody for 30 min at room temperature. The cells were then incubated in 1 X PBS/2%BSA/10% goat serum to block non-specific protein-protein interactions followed by the antibody for 15 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Hela cell; 4% Paraformaldehyde-fixed; Triton X-100 at room temperature for 20 min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min; Antibody incubation with (UCP-2) polyclonal Antibody, Unconjugated (AP52232) 1:100, 90 minutes at 37°C; followed by a conjugated Goat Anti-Rabbit IgG antibody at 37°C for 90 minutes, DAPI (blue, C02-04002) was used to stain the cell nuclei.



Sample:

Lane 1: Stomach (Rat) Lysate at 40 ug

Lane 2: NIH/3T3 (Mouse) Cell Lysate at 30 ug

Lane 3: SiHa (Human) Cell Lysate at 30 ug

Lane 4: DU145 (Human) Cell Lysate at 30 ug

Lane 5: RAW264.7 (Mouse) Cell Lysate at 30 ug

Lane 6: Liver (Mouse) Lysate at 40 ug

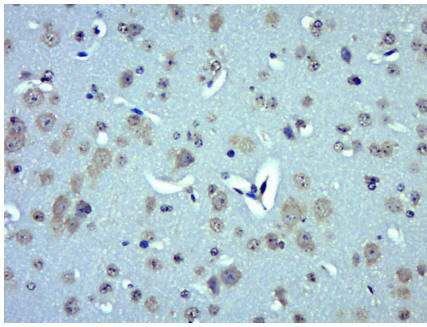
Primary: Anti-UCP-2 (AP52232) at 1/1000 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 33 kD

Observed band size: 33 kD

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 (AP52232) at 1:400 overnight at 4°C,



followed by operating according to SP Kit(Rabbit)
(sp-0023) instructions and DAB staining.

Citations

- [PEDE protects human retinal pigment epithelial cells against oxidative stress via upregulation of UCP2 expression.](#)

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.