

ARG64193 anti-UCP2 antibody

Package: 100 µg
Store at: -20°C

Summary

Product Description	Goat Polyclonal antibody recognizes UCP2
Tested Reactivity	Hu, Ms, Rat
Predict Reactivity	Dog
Tested Application	ICC/IF, IHC-P, WB
Host	Goat
Clonality	Polyclonal
Isotype	IgG
Target Name	UCP2
Species	Human
Immunogen	C-DSVKQFYTKGSEH
Conjugation	Un-conjugated
Alternate Names	UCPH; Solute carrier family 25 member 8; SLC25A8; BMIQ4; Mitochondrial uncoupling protein 2; UCP 2

Application Instructions

Application table	Application	Dilution
	ICC/IF	10 µg/ml
	IHC-P	Assay - dependent
	WB	0.3 - 1 µg/ml

Application Note
WB: Recommend incubate at RT for 1h.
IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).
* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.

Properties

Form	Liquid
Purification	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Buffer	Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA
Preservative	0.02% Sodium azide
Stabilizer	0.5% BSA
Concentration	0.5 mg/ml
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated

freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Background

Mitochondrial uncoupling proteins (UCP) are members of the larger 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 in many tissues, with the greatest expression in skeletal muscle. It is thought to play a role in nonshivering thermogenesis, obesity and diabetes. Chromosomal order is 5'-UCP3-UCP2-3'. [provided by RefSeq, Jul 2008]

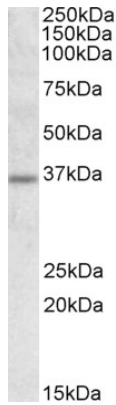
Research Area

Cancer antibody; Metabolism antibody

Calculated Mw

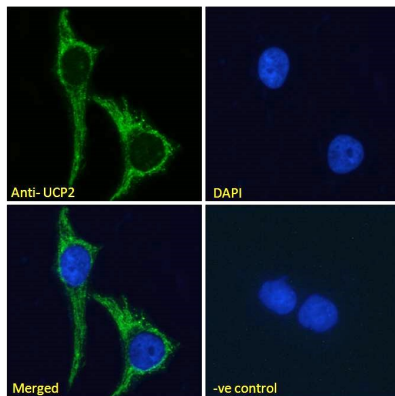
33 kDa

Images



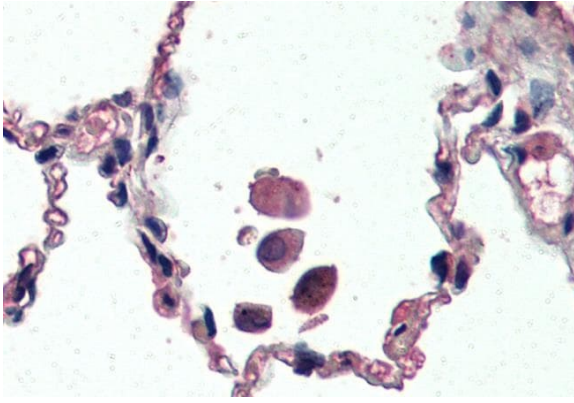
ARG64193 anti-UCP2 antibody WB image

Western blot: Human Liver lysate (35 µg protein in RIPA buffer) stained with ARG64193 anti-UCP2 antibody at 0.05 µg/ml dilution.



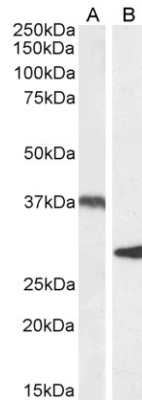
ARG64193 anti-UCP2 antibody ICC/IF image

Immunofluorescence: Paraformaldehyde fixed MCF7 cells permeabilized with 0.15% Triton. Cells were stained with ARG64193 anti-UCP2 antibody (green) at 10 µg/ml dilution for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized goat IgG (green) at 10 µg/ml dilution.



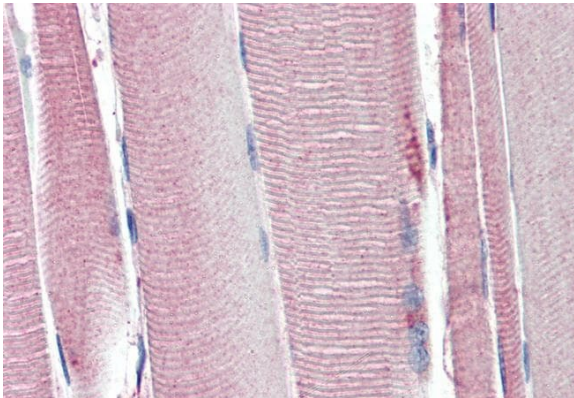
ARG64193 anti-UCP2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human lung tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG64193 anti-UCP2 antibody at 3.75 $\mu\text{g}/\text{ml}$ dilution followed by AP-staining.



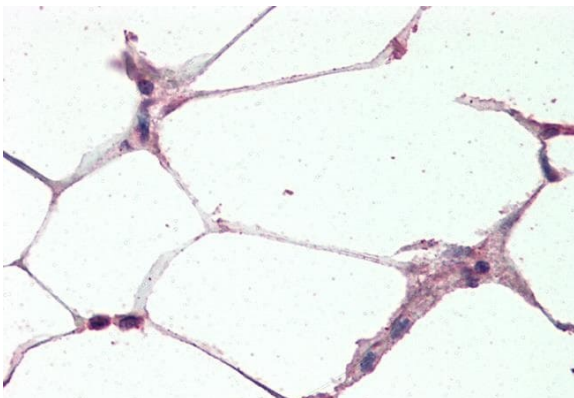
ARG64193 anti-UCP2 antibody WB image

Western blot: 35 μg of Rat adipose (A) and Mouse spleen (B) lysates (in RIPA buffer) stained with ARG64193 anti-UCP2 antibody at 1 $\mu\text{g}/\text{ml}$ dilution and incubated at RT for 1 hour.



ARG64193 anti-UCP2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human skeletal muscle tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG64193 anti-UCP2 antibody at 3.75 $\mu\text{g}/\text{ml}$ dilution followed by AP-staining.



ARG64193 anti-UCP2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human adipocytes. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG64193 anti-UCP2 antibody at 3.75 $\mu\text{g}/\text{ml}$ dilution followed by AP-staining.