

UCP2 Polyclonal Antibody | anti-UCP2 antibody

Goat Polyclonal to Human UCP2

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA51005	UCP2 antibody was produced in Goat	Human, Monkey, Mouse, Rat, Bat, Bovine, Dog, Hamster, Horse, Pig, Rabbit, Xenopus. Predicted Reactivity: Zebrafish	ELISA, Western Blot, Immunohistochemistry

PRODUCT SYNONYMS

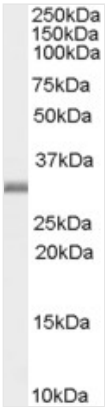
UCP2; Polyclonal Antibody; Goat Polyclonal to Human UCP2; Anti-UCP2 Antibody (Internal) IHC-plus; BMIQ4; UCP 2; Uncoupling protein 2; UCPH; SLC25A8; Human UCP2; anti-UCP2 antibody

PRODUCT SPECIFICATIONS

Host	UCP2 antibody was produced in Goat
Reactivity	Human, Monkey, Mouse, Rat, Bat, Bovine, Dog, Hamster, Horse, Pig, Rabbit, Xenopus. Predicted Reactivity: Zebrafish
Clonality	Polyclonal
Specificity	Human UCP2.
Purity/Purification	Immunoaffinity Purified
Form/Format	Tris-buffered saline, pH 7.3, 0.5% BSA, 0.02% sodium azide
Concentration	0.5 mg/mL (varies by lot)
Sequence Length	309
Applicable Applications for anti-UCP2 antibody	ELISA, WB (Western Blot), IHC (Immunohistochemistry)
Immunogen Species	UCP2 antibody was raised against Human.
Antigen Type	Synthetic peptide
Immunogen	UCP2 antibody was raised against synthetic peptide C-DSVKQFYTKGSEH from an internal region of human UCP2 (NP_003346.2). Percent identity by BLAST analysis: Human, Gorilla, Orangutan, Gibbon, Monkey, Marmoset, Mouse, Rat, Hamster, Elephant, Panda, Bat, Bovine, Dog, Horse, Rabbit, Pig, Opossum, Xenopus, Stickleback (100%); Smelt, Zebrafish (92%); Trout, Salmon (85%).
Antigen Modification	Internal
Epitope	aa101-113
Usage summary	Immunohistochemistry: was validated for use in immunohistochemistry on a panel of 21 formalin-fixed, paraffin-embedded (FFPE) human tissues after heat induced antigen retrieval in pH 6.0 citrate buffer. After incubation with the primary antibody, slides were incubated with biotinylated secondary antibody, followed by alkaline phosphatase-streptavidin and chromogen. The stained slides were evaluated by a pathologist to confirm staining specificity. The optimal working concentration for was determined to be 3.75 ug/mL.
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to how this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

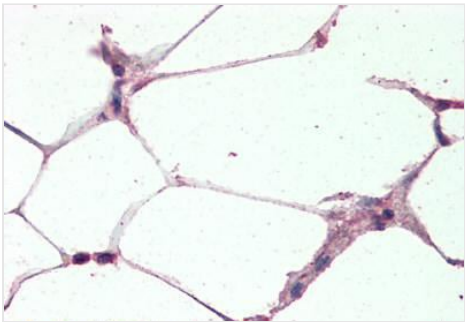
Recommended Immunohistochemistry Protocol	The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results: Tissue Preparation: Formalin fixation and embedding in paraffin wax. Tissue Sectioning: Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60°C. Deparaffinization: Wash dry slides in 3 changes of xylene - 5 minutes each @ RT Rehydration: Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT Wash slides in 1 change of 80% alcohol - 3 minutes @ RT Rinse slides in gentle running distilled water - 5 minutes @ RT Antigen retrieval: Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100°C - 20 minutes Remove from heat and let stand at room temperature in buffer - 20 minutes Rinse in 1X TBS with Tween (TBST) -1 minute @ RT Immunostaining: (Do not allow tissues to dry at any time during the staining procedure) Apply a universal protein block - 20 minutes @ RT Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT Rinse slides in 1 X TBST - 1 minute @ RT Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase streptavidin - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT Wash slides in distilled water - 1 minute @ RT Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB) Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT Wash slides in 3 changes of xylene - 1 minute each @ RT Apply coverslip
Preparation and Storage	Store at -20°C. Avoid freezing and thawing.

IMAGES



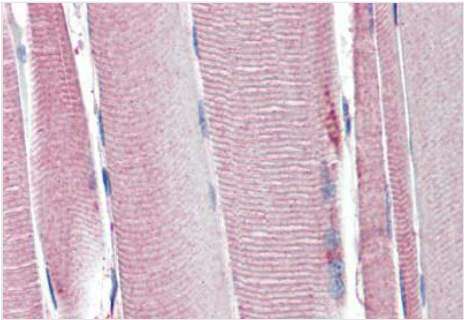
WB (Western Blot)

Antibody (0.5 ug/ml) staining of Mouse Liver lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.



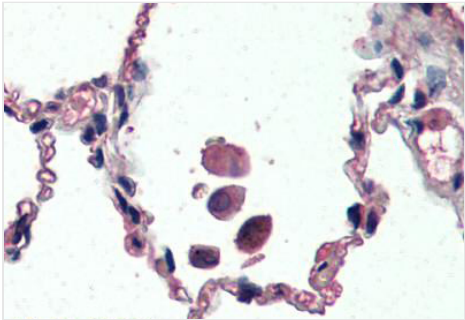
IHC (Immunohistochemisry)

Anti-UCP2 antibody IHC of human adipocytes. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 75 ug/ml.



IHC (Immunohiostchemistry)

Anti-UCP2 antibody IHC of human skeletal muscle. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 75 ug/ml.



IHC (Immunohistochemistry)

Anti-UCP2 antibody IHC of human lung. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 75 ug/ml.

ADDITIONAL INFORMATION

Product Categories/Family for anti-UCP2 antibody	Family: Transporter ; Subfamily: Mitochondrial carrier
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NCBI AND UNIPROT INFORMATION

NCBI GI #	13259541
NCBI GeneID	7351
NCBI Accession #	NP_003346.2
NCBI GenBank Nucleotide #	NM_003355.2
UniProt Accession #	P55851 ; Q4PJH8 ; Q53HM3
NCBI Official Full Name	mitochondrial uncoupling protein 2
NCBI Official Synonym Full Names	uncoupling protein 2 (mitochondrial, proton carrier)
NCBI Official Symbol	UCP2
NCBI Official Synonym Symbols	UCPH; BMIQ4; SLC25A8
NCBI Protein Information	mitochondrial uncoupling protein 2; solute carrier family 25 member 8
UniProt Protein Name	Mitochondrial uncoupling protein 2
UniProt Gene Name	UCP2

UniProt Synonym Gene Names	SLC25A8; UCP 2
UniProt Entry Name	UCP2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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