

Product datasheet for **TA302628**

UCP2 Goat Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	ELISA: 1:32,000. WB: 1-3µg/ml.
Reactivity:	Human (Expected from sequence similarity: Mouse, Rat, Dog)
Host:	Goat
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	Peptide with sequence C-DSVKQFYTKGSEH, from the internal region of the protein sequence according to NP_003346.2.
Formulation:	Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Concentration:	lot specific
Purification:	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide. Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	36854 Da
Gene Name:	uncoupling protein 2
Database Link:	NP_003346 Entrez Gene 22228 Mouse Entrez Gene 54315 Rat Entrez Gene 403576 Dog Entrez Gene 7351 Human P55851



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Background:

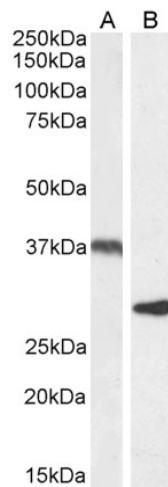
Mitochondrial uncoupling proteins (UCP) are members of the larger family of mitochondrial anion carrier proteins (MACP). UCPs separate oxidative phosphorylation from ATP synthesis with energy dissipated as heat, also referred to as the mitochondrial proton leak. UCPs facilitate the transfer of anions 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]

Synonyms:

BMIQ4; SLC25A8; UCPH

Protein Families:

Druggable Genome

Product images:

TA302628 (1ug/ml) staining of Rat Adipose (A) and Mouse Spleen (B) lysate (35ug protein in RIPA buffer). Detected by chemiluminescence.

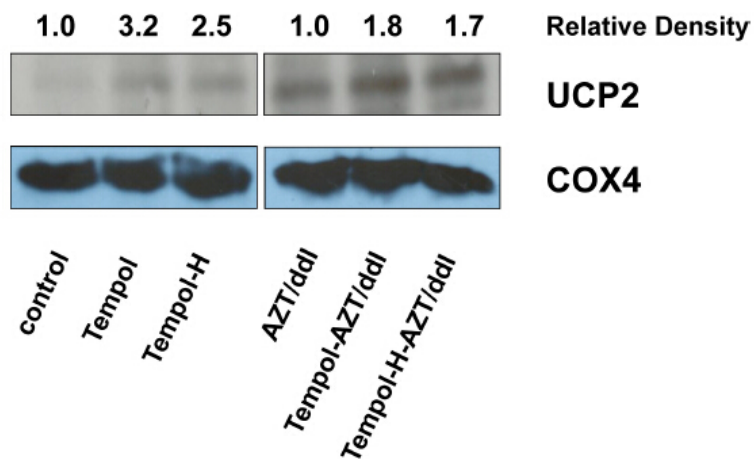
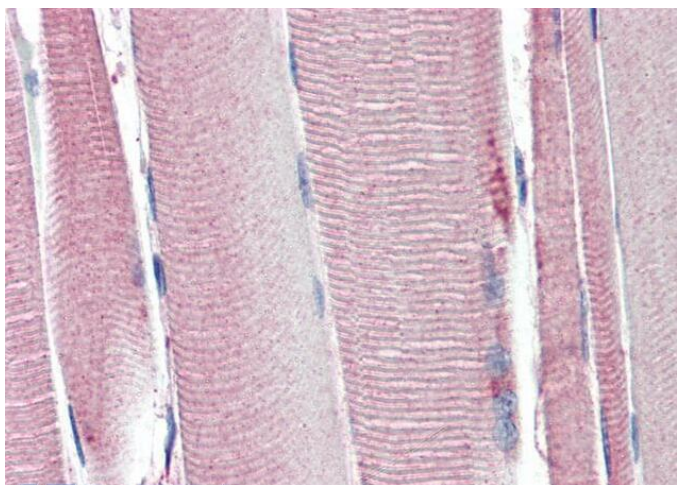


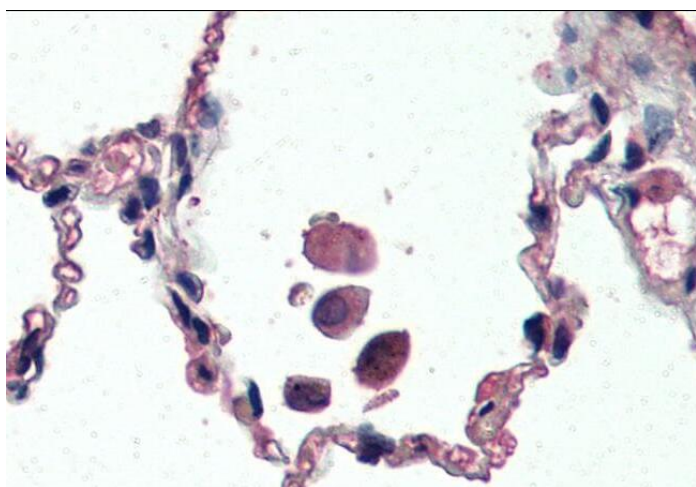
Figure from citation: Western Blot of UCP2 protein level by using anti-UCP2 antibody in rat P5 H9c2 cells. [View Citation](#)



TA302628 (3.75ug/ml) staining of paraffin embedded Human Skeletal Muscle. Steamed antigen retrieval with citrate buffer pH 6, AP-staining. This data is from a previous batch, not on sale.



TA302628 (3.75ug/ml) staining of paraffin embedded Human Adipocytes. Steamed antigen retrieval with citrate buffer Ph 6, AP-staining. This data is from a previous batch, not on sale.



TA302628 (3.75ug/ml) staining of paraffin embedded Human Lung. Steamed antigen retrieval with citrate buffer pH 6, AP-staining. This data is from a previous batch, not on sale.