

# **UCP2 Polyclonal Antibody**

#### Description

Product type Primary Antibody

Code BT-AP09401

**Host** Rabbit

Isotype IgG

Size 20ul, 50ul, 100ul

Immunogen The antiserum was produced against synthesized peptide derived from human UCP2. AA range:64-113

Mol wt 33229

Species reactivity Human, Mouse, Rat

Clonality Polyclonal

Recommended application IHC-p, ELISA

Concentration 1 mg/ml

Full name UCP2 Antibody

Synonyms UCP2; SLC25A8; Mitochondrial uncoupling protein 2; UCP 2; Solute carrier family 25 member 8; UCPH

This product is for research use only, not for use in human, therapeutic or diagnostic procedure.

#### Background

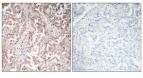
Mitochondrial uncoupling proteins (UCP) are members of the larger family of mitochondrial anion carrier proteins (MACP). UCPs separate oxidative phosphorylation from ATP synthesis with energy dissipated as heat, also referred to as the mitochondrial proton leak. UCPs facilitate the transfer of anions 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. UCP2 (uncoupling protein 2) 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'.

### Recommended Dilution

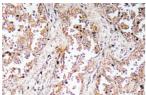
IHC: 1: 100 - 1: 300 ELISA: 1: 10000

Not yet tested in other applications.

## Images



Immunohistochemical analysis of paraffin-embedded Human lung cancer. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was pre-absorbed by immunogen peptide.



Immunohistochemistry analysis of UCP2 antibody in paraffin-embedded human lung carcinoma tissue.

# Storage

-20°C for one year

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