

## UCP1

**Reactivity:**Human Mouse Rat

**Tested applications:**WB IHC

**Recommended Dilution:**WB 1:200 - 1:2000 IHC 1:20 - 1:200

**Calculated MW:**33kDa

**Observed MW:**Refer to Figures

**Immunogen:**

Recombinant protein of human UCP1

**Storage Buffer:**

Store at -20. Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

**Concentration:**

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**Synonym:**

UCP; SLC25A7

**Catalog #:**A7236

**Antibody Type:**

Polyclonal Antibody

**Species:**Rabbit

**Gene ID:**7350

**Isotype:**IgG

**Swiss Prot:**P25874

**Purity:**Affinity purification

For research use only.

**Background:**

Mitochondrial uncoupling proteins (UCP) are members of the 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<sup>+</sup>/OH<sup>-</sup> are not known. UCPs contain the three homologous protein domains of MACPs. This gene is expressed only in brown adipose tissue, a specialized tissue which functions to produce heat.

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