

UCP2 Polyclonal Antibody

catalog number: E-AB-92580

Note: Centrifuge before opening to ensure complete recovery of vial contents.

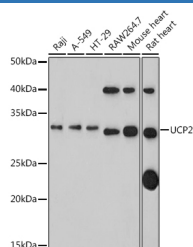
Description

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|---------------------|--|
| Reactivity | Human;Mouse;Rat |
| Immunogen | Recombinant fusion protein of human UCP2 |
| Host | Rabbit |
| Isotype | IgG |
| Purification | Affinity purification |
| Buffer | Phosphate buffered solution, pH 7.4, containing 0.05% stabilizer and 50% glycerol. |

Applications

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| WB | 1:500-1:2000 |
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Data



Western blot analysis of extracts of various cell lines using UCP2 Polyclonal Antibody at 1:1000 dilution.

Observed-MV:32 kDa

Calculated-MV:33 kDa

Preparation & Storage

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| Storage | Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles. |
| Shipping | The product is shipped with ice pack, upon receipt, store it immediately at the temperature recommended. |

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'.

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