

Anti-UCP3 Polyclonal Antibody

Cat: AC51593

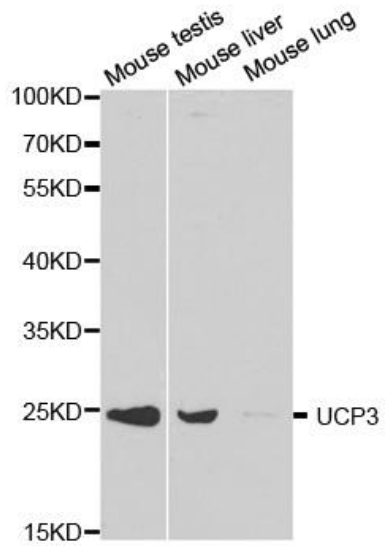
Summary:

- | | |
|--|---|
| 【Product name】 : Anti-UCP3 antibody | 【Source】 : Rabbit |
| 【Isotype】 : IgG | 【Species reactivity】 : Human Mouse |
| 【Swiss Prot】 : P55916 | 【Gene ID】 : 7352 |
| 【Calculated】 : MW:34kDa | 【Observed】 : MW:25kDa |
| 【Purification】 : Affinity purification | |
| 【Tested applications】 : WB | |
| 【Recommended dilution】 : WB 1:500-2000. | |
| 【WB Positive sample】 : Mouse testis,Mouse liver,Mouse lung | |
| 【Subcellular location】 : Mitochondrion inner membrane Multi-pass membrane protein | |
| 【Immunogen】 : Recombinant protein of human UCP3 | |
| 【Storage】 : Shipped at 4°C. Upon delivery aliquot and store at -20°C | |

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. The different UCPs have tissue-specific expression; this gene is primarily expressed in skeletal muscle. This gene's protein product is postulated to protect mitochondria against lipid-induced oxidative stress. Expression levels of this gene increase when fatty acid supplies to mitochondria exceed their oxidation capacity and the protein enables the export of fatty acids from mitochondria. UCPs contain the three solcar protein domains typically found in MACPs. Two splice variants have been found for this gene.

Verified picture



Western blot analysis with UCP3 antibody
diluted at 1:1000