

## UCP2 抗原

中文名称： UCP2 抗原

英文名称： UCP2 Antigen

相关类别： 抗原

储 存： 冷冻（-20℃）

### 概述

Synthetic peptide corresponding to a region derived from 293-309 amino acids of human uncoupling protein 2

### 技术规格

|                       |  |
|-----------------------|--|
| <b>Full name</b>      | uncoupling protein 2 (mitochondrial, proton carrier)   |
| <b>Synonyms</b>       | UCPH; BMIQ4; SLC25A8   |
| <b>Swissprot</b>      | P55851   |
| <b>Gene Accession</b> | NP_003346  |
| <b>Background</b>     | 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 <sup>+</sup> /OH <sup>-</sup> 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'.