



Mouse Monoclonal Antibody to UCP2

Catalogue Number	sAP-1295
Target Molecule	Name: UCP2 Aliases: UCPH; BMIQ4; SLC25A8 MW: 33.2kDa Entrez Gene ID: 7351
Description	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 thermo-
Immunogen	Purified recombinant fragment of human UCP2 (AA: 1-309) expressed in E. Coli.
Recombinant Species	Human;
Clone	MM6C8B3;
Size and Concentration	100µg/1mg/ml
Supplied as	Lyophilized Powder from 100µl of Purified antibody in PBS with 0.05% sodium azide
Reconstitution/Storages	Reconstituted with 100µl sterile DI H ₂ O, at stored at 4°C or -20°C for short or long term storage
Applications	ELISA: 1 to 10000; WB: 1 to 500 - 1 to 2000; IHC: ; ICC: ; FCM:
Shipping	Regular FEDEX overnight shipment (ambient temperature)
Reference	1.Endocrine. 2013 Jun;43(3):714-23. ; 2.Carcinogenesis. 2012 Nov;33(11):2065-75. ;

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**