

Mouse Monoclonal Antibody to UCP3

Catalogue Number	sAP-1338
Target Molecule	Name: UCP3 Aliases: SLC25A9 MW: 34.2kDa Entrez Gene ID: 7352
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. 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
Immunogen	Purified recombinant fragment of human UCP3 (AA: 1-113 and 217-312) expressed in E. Coli.
Recombinant Species	Human;
Clone	MM6B8C6;
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: 1 to 200 - 1 to 1000; FCM:
Shipping	Regular FEDEX overnight shipment (ambient temperature)
Reference	1.J Biol Chem. 2011 Sep 16;286(37):32533-41. ; 2.Nutr Hosp. 2012 Jul-Aug;27(4):1190-5. ;

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**