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anti-UCP3 antibody (AA 1-113, AA 217-312)





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Quantity:	0.1 mg
Target:	UCP3
Binding Specificity:	AA 1-113, AA 217-312
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This UCP3 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Immunogen:	Purified recombinant fragment of human UCP3 (AA: 1-113 and 217-312) expressed in E. coli.
Clone:	6B8C6
Isotype:	lgG2a
Purification:	purified

Target Details

Target:	UCP3
Alternative Name:	UCP3 (UCP3 Products)
Background:	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 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.,

Aliases: SLC25A9

Molecular Weight: 34.2 kDa

Gene ID: 7352

HGNC: 7352

Pathways: Proton Transport

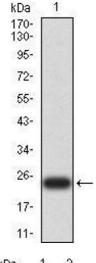
Application Details

Application Notes: ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: , ICC: 1:200 - 1:1000, FCM:

Restrictions: For Research Use only

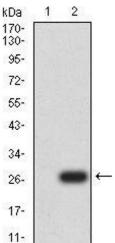
Handling

Format:	Liquid
Buffer:	Purified antibody in PBS with 0.05 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C/-20 °C
Storage Comment:	4°C20°C for long term storage



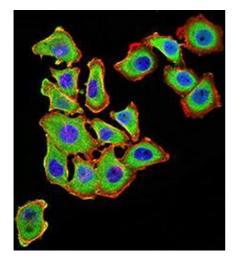
Western Blotting

Image 1. Western blot analysis using UCP3 mAb against human UCP3 (AA: 1-113 and 217-312) recombinant protein. (Expected MW is 24 kDa)



Western Blotting

Image 2. Western blot analysis using UCP3 mAb against HEK293 (1) and UCP3 (AA:1-113 and 217-312)-hlgGFc transfected HEK293 (2) cell lysate.



Immunocytochemistry

Image 3. Immunofluorescence analysis of HL-7702 cells using UCP3 mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye. Red: Actin filaments have been labeled with Alexa Fluor- 555 phalloidin. Secondary antibody from Fisher

Please check the product details page for more images. Overall 4 images are available for ABIN5542343.