

Datasheet for ABIN5542465
anti-UCP2 antibody (AA 1-309)[Go to Product page](#)

5 Images

Overview

Quantity:	0.1 mg
Target:	UCP2
Binding Specificity:	AA 1-309
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This UCP2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunocytochemistry (ICC), Flow Cytometry (FACS)

Product Details

Immunogen:	Purified recombinant fragment of human UCP2 (AA: 1-309) expressed in E. coli.
Clone:	3F1B9
Isotype:	IgG2a
Purification:	purified

Target Details

Target:	UCP2
Alternative Name:	UCP2 (UCP2 Products)
Background:	Description: Mitochondrial uncoupling proteins (UCP) are members of the larger family of

Target Details

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 thermogenesis, obesity and diabetes. Chromosomal order is 5'-UCP3-UCP2-3', Aliases: UCPH, BMIQ4, SLC25A8

Molecular Weight: 33.2 kDa

Gene ID: 7351

HGNC: 7351

Pathways: [Negative Regulation of Hormone Secretion](#), [Carbohydrate Homeostasis](#), [Proton Transport](#)

Application Details

Application Notes: ELISA: 1:10000, WB: 1:500 - 1:2000, IHC: , ICC: 1:200 - 1:1000, FCM: 1:200 - 1:400

Restrictions: For Research Use only

Handling

Format: Liquid

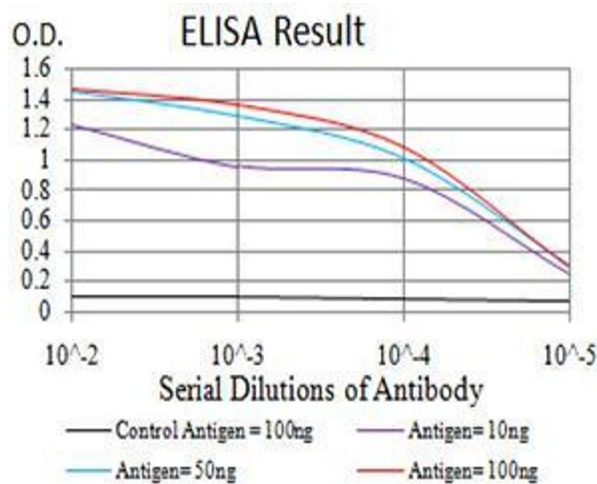
Buffer: Purified antibody in PBS with 0.05 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

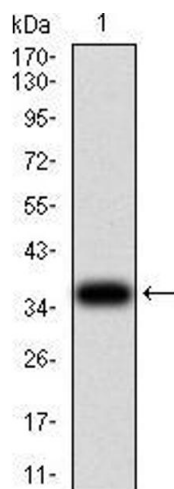
Storage: 4 °C/-20 °C

Storage Comment: 4°C, -20°C for long term storage



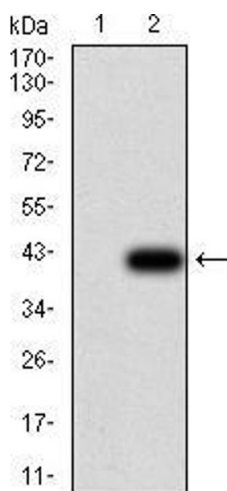
ELISA

Image 1. Black line: Control Antigen (100 ng),Purple line: Antigen (10 ng), Blue line: Antigen (50 ng), Red line:Antigen (100 ng)



Western Blotting

Image 2. Western blot analysis using UCP2 mAb against human UCP2 (AA: 1-309) recombinant protein. (Expected MW is 36.1 kDa)



Western Blotting

Image 3. Western blot analysis using UCP2 mAb against HEK293 (1) and UCP2 (AA: 1-309)-hlgGfc transfected HEK293 (2) cell lysate.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN5542465.