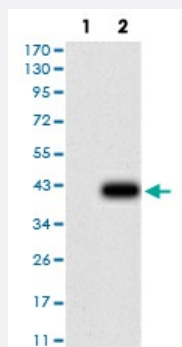


UCP2 monoclonal antibody, clone 3F1B9

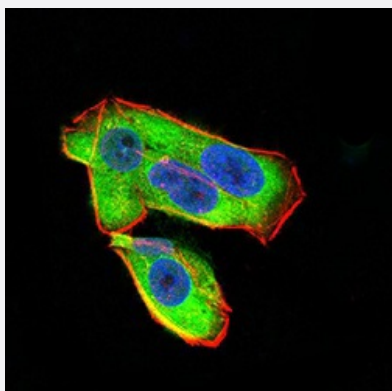
Catalog # MAB17188 Size 100 ug

Applications



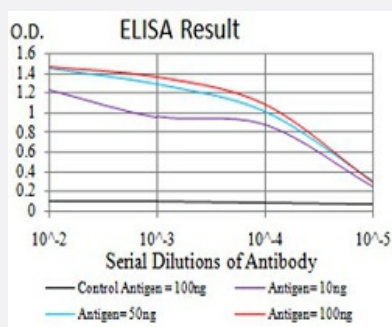
Western Blot (Transfected lysate)

Western Blot analysis of (1) HEK293 cells, (2) UCP2-hlgGfc transfected HEK293 cell lysate.



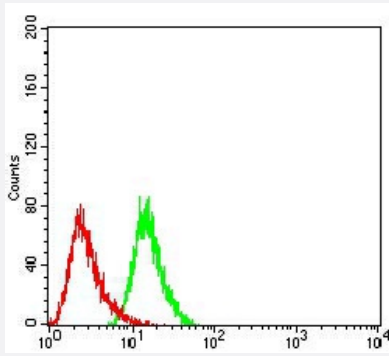
Immunocytochemistry

Immunocytochemical staining of HeLa cells with UCP2 monoclonal antibody (green). DRAQ5 fluorescent DNA dye (blue). Actin filaments have been labeled with Alexa Fluor-555 phalloidin (red).



Enzyme-linked Immunoabsorbent Assay

ELISA analysis of UCP2 monoclonal antibody, clone 3F1B9.



Flow Cytometry

Flow cytometric analysis of HeLa cells with UCP2 monoclonal antibody (green) and negative control (red).

Specification

Product Description	Mouse monoclonal antibody raised against recombinant human UCP2.
Immunogen	Recombinant protein corresponding to amino acid 1-309 of human UCP2 from <i>E. coli</i> .
Host	Mouse
Theoretical MW (kDa)	33.2kDa
Reactivity	Human
Form	Liquid
Isotype	IgG2a
Recommend Usage	ELISA (1:10000) Western Blot (1:500-1:2000) Immunohistochemistry Immunocytochemistry (1:200-1:1000) Flow Cytometry (1:200-1:400) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.05% sodium azide).
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Transfected lysate)

Western Blot analysis of (1) HEK293 cells, (2) UCP2-hlgGfc transfected HEK293 cell lysate.

- Immunocytochemistry

Immunocytochemical staining of HeLa cells with UCP2 monoclonal antibody (green). DRAQ5 fluorescent DNA dye (blue). Actin filaments have been labeled with Alexa Fluor- 555 phalloidin (red).

- Enzyme-linked Immunoabsorbent Assay

ELISA analysis of UCP2 monoclonal antibody, clone 3F1B9.

- Flow Cytometry

Flow cytometric analysis of HeLa cells with UCP2 monoclonal antibody (green) and negative control (red).

Gene Info — UCP2

Entrez GeneID [7351](#)

Gene Name UCP2

Gene Alias BMIQ4, SLC25A8, UCPH

Gene Description uncoupling protein 2 (mitochondrial, proton carrier)

Omim ID [601665 601693](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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 thermogenesis, obesity and diabetes. Chromosomal order is 5'-UCP3-UCP2-3'. [provided by RefSeq]

Other Designations uncoupling protein 2|uncoupling protein-2

Disease

- [Alzheimer disease](#)

- [Anorexia Nervosa](#)
- [Arthritis](#)
- [Atherosclerosis](#)
- [Body Weight](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Bulimia](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Cholangitis](#)
- [Chronic Disease](#)
- [Churg-Strauss Syndrome](#)
- [Cognition](#)
- [Colitis](#)
- [Coronary Artery Disease](#)
- [Coronary Disease](#)
- [Crohn Disease](#)
- [Diabetes Complications](#)
- [Diabetes Mellitus](#)
- [Diabetic Angiopathies](#)
- [Diabetic Neuropathies](#)
- [Diabetic Retinopathy](#)
- [Disease Progression](#)
- [Drug Toxicity](#)
- [Edema](#)

- [Endometrial Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Glomerulonephritis](#)
- [Glucose Intolerance](#)
- [Glucose Metabolism Disorders](#)
- [Hearing Disorders](#)
- [Hypercholesterolemia](#)
- [Hyperglycemia](#)
- [Hyperhomocysteinemia](#)
- [Hyperinsulinism](#)
- [Hypertension](#)
- [Inflammation](#)
- [Insulin Resistance](#)
- [Kidney Failure](#)
- [Lupus Erythematosus](#)
- [Metabolic Syndrome X](#)
- [Multiple Sclerosis](#)
- [Myocardial Infarction](#)
- [Neural Tube Defects](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Overweight](#)
- [Polycystic Ovary Syndrome](#)
- [Prostatic Neoplasms](#)
- [Psoriasis](#)

- [Puberty](#)
- [Renal Insufficiency](#)
- [Schizophrenia](#)
- [Sepsis](#)
- [Sleep Apnea](#)
- [Spinal Dysraphism](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)
- [Venous Thrombosis](#)
- [Weight Gain](#)
- [Weight Loss](#)
- [Werner syndrome](#)