

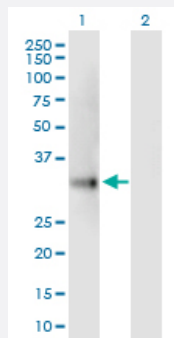
MaxPab®

UCP2 purified MaxPab mouse polyclonal antibody (B03P)

Catalog # H00007351-B03P

Size 50 ug

Applications



Western Blot (Transfected lysate)

Western Blot analysis of UCP2 expression in transfected 293T cell line ([H00007351-T03](#)) by UCP2 MaxPab polyclonal antibody.

Lane 1: UCP2 transfected lysate(34.10 KDa).

Lane 2: Non-transfected lysate.

Specification

Product Description	Mouse polyclonal antibody raised against a full-length human UCP2 protein.
Immunogen	UCP2 (AAH11737.1, 1 a.a. ~ 309 a.a) full-length human protein.
Sequence	MVGFKATDVPPTATVKFLGAGTAACIADLITFPLGTAKVRLQIQGESQGPVRATASAQYRGVMGTI LTMVRTEGPRSLYNGLVAGLQRQMSFASVRIGLYDSVKQFYTKGSEHASIGSRLLAGSTTGALAVA VAQPTDVVKVRFQAQARAGGRRYQSTVNAKYTIAREEGFRGLWKGTSPNVARNAVNCAELVT YDLIKDALLKANLMTDDLPCHTSAFGAGFCTTVIASPVDVVKTRYMNSALGQYSSAGHCALTML QKEGPRAFYKGFMPNFLRLGSWNVVMFVTEQLKRALMAACTSREAPF
Host	Mouse
Reactivity	Human
Quality Control Testing	Antibody reactive against mammalian transfected lysate.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

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[Protocol Download](#)

Gene Info — UCP2

Entrez GeneID [7351](#)

GeneBank Accession# [BC011737.2](#)

Protein Accession# [AAH11737.1](#)

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](#)