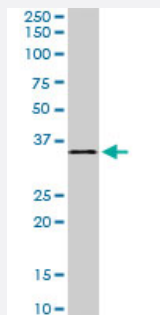


UCP1 polyclonal antibody

Catalog # PAB6905

Size 100 ug

Applications



Western Blot (Tissue lysate)

UCP1 polyclonal antibody (Cat # PAB6905) (1 ug/mL) staining of human adipose lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

Specification

Product Description Goat polyclonal antibody raised against synthetic peptide of UCP1.

Immunogen A synthetic peptide corresponding to human UCP1.

Sequence C-EQLKRELSKSRQ

Host Goat

Theoretical MW (kDa) 33

Reactivity Human

Form Liquid

Purification Antigen affinity purification

Concentration 0.5 mg/mL

Quality Control Testing Antibody Reactive Against Synthetic Peptide.

Recommend Usage
ELISA (1:128000)
Western Blot (0.1-1 ug/mL)
The optimal working dilution should be determined by the end user.

Storage Buffer	In Tris saline, pH 7.3 (0.5% BSA, 0.02% sodium azide)
Storage Instruction	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 (Tissue lysate)

UCP1 polyclonal antibody (Cat # PAB6905) (1 ug/mL) staining of human adipose lysate (35 ug protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

- Enzyme-linked Immunoabsorbent Assay

Gene Info — UCP1

Entrez GeneID	7350
Protein Accession#	NP_068605.1
Gene Name	UCP1
Gene Alias	SLC25A7, UCP
Gene Description	uncoupling protein 1 (mitochondrial, proton carrier)
Omim ID	113730 601665
Gene Ontology	Hyperlink
Gene Summary	Mitochondrial uncoupling proteins (UCP) are members of the 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 only in brown adipose tissue, a specialized tissue which functions to produce heat. [provided by RefSeq]
Other Designations	mitochondrial brown fat uncoupling protein thermogenin uncoupling protein 1

Publication Reference

- [Dissipating excess energy stored in the liver is a potential treatment strategy for diabetes associated with obesity.](#)

Ishigaki Y, Katagiri H, Yamada T, Ogihara T, Imai J, Uno K, Hasegawa Y, Gao J, Ishihara H, Shimosegawa T, Sakoda H, Asano T, Oka Y.

Diabetes 2005 Feb; 54(2):322.

Application: WB-Ti, Mouse, Liver

Pathway

- [PPAR signaling pathway](#)

Disease

- [Albuminuria](#)
- [Anorexia Nervosa](#)
- [Atherosclerosis](#)
- [Birth Weight](#)
- [Body Weight](#)
- [Bulimia](#)
- [Calcinosis](#)
- [Cardiovascular Diseases](#)
- [Coronary Artery Disease](#)
- [Diabetes Mellitus](#)
- [Diabetic Nephropathies](#)
- [Diabetic Neuropathies](#)
- [Diabetic Retinopathy](#)
- [Disease Progression](#)

- [Dyslipidemias](#)
- [Edema](#)
- [Fatty Liver](#)
- [Genetic Predisposition to Disease](#)
- [Glomerulonephritis](#)
- [Glucose Intolerance](#)
- [Hearing Disorders](#)
- [Hepatitis](#)
- [Hypercholesterolemia](#)
- [Hypertension](#)
- [Insulin Resistance](#)
- [Kidney Failure](#)
- [Metabolic Syndrome X](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Sudden Infant Death](#)
- [Thrombophilia](#)
- [Thyroid Neoplasms](#)
- [Tobacco Use Disorder](#)
- [Weight Gain](#)
- [Weight Loss](#)