

产品名称: UCP3 Rabbit Polyclonal Antibody
产品货号: APRab19597



产品概述 (Summary)

产品名称 (Production Name)	UCP3 Rabbit Polyclonal Antibody
描述 (Description)	Rabbit polyclonal Antibody
宿主 (Host)	Rabbit
应用 (Application)	WB,ELISA
种属反应性 (Reactivity)	Human,Mouse,Rat

产品性能 (Performance)

偶联物 (Conjugation)	Unconjugated
修饰 (Modification)	Unmodified
同种型 (Isotype)	IgG
克隆 (Clonality)	Polyclonal
形式 (Form)	Liquid
存放说明 (Storage)	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
储存溶液 (Buffer)	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
纯化方式 (Purification)	Affinity purification

免疫原信息 (Immunogen)

基因名 (Gene Name)	UCP3
别名 (Alternative Names)	UCP3; SLC25A9; Mitochondrial uncoupling protein 3; UCP 3; Solute carrier family 25 member 9
基因 ID (Gene ID)	7352.0
蛋白 ID (SwissProt ID)	P55916.The antiserum was produced against synthesized peptide derived from human UCP3. AA range:259-308

产品应用 (Application)

稀释比 (Dilution Ratio)	WB 1:500-1:2000,ELISA 1:5000-1:20000
蛋白分子量 (Molecular Weight)	33kDa

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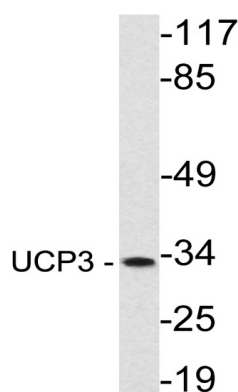
研究背景 (Background)

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. Defects in UCP3 may be involved in severe obesity [MIM:601665].,function:UCP are mitochondrial transporter proteins that create proton leaks across the inner mitochondrial membrane, thus uncoupling oxidative phosphorylation. As a result, energy is dissipated in the form of heat. May play a role in the modulation of tissue respiratory control. Participates in thermogenesis and energy balance.,similarity:Belongs to the mitochondrial carrier family.,similarity:Contains 3 Solcar repeats.,tissue specificity:Only in skeletal muscle and heart. Is more expressed in glycolytic than in oxidative skeletal muscles.,

研究领域 (Research Area)

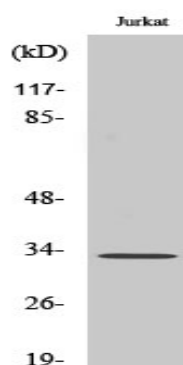
Signal Transduction; Metabolism; Mitochondrial; Neuroscience; Neurology process; Cardiovascular; Atherosclerosis; Diabetes associated; Lipids / Lipoproteins; Fatty Acids; Cancer; Cancer Metabolism; Response to hypoxia; Pathways and Processes; Mitochondrial Metabolism; Mitochondrial markers; Metabolism processes; Hypoxia; Diabetes; Obesity; Cancer; Heart disease; Redox metabolism; Fatty acid oxidation

图片 (Image Data)



Western blot analysis of lysate from Jurkat cells, using UCP3 antibody.

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Western Blot analysis of various cells using UCP3 Polyclonal Antibody diluted at 1: 1000. Secondary antibody was diluted at 1:20000

注意事项 (Note)

For research use only .