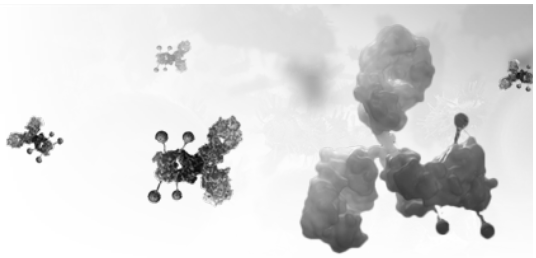

Human UCP1 blocking peptide (CDBP3123)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Blocking/Immunizing peptide for anti-UCP1 antibody
Antigen Description	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, Jul 2008]
Species	Human
Conjugate	Unconjugated
Applications	Apuri, BL, ELISA
Format	Lyophilized powder
Size	100 µg
Preservative	None
Storage	Shipped at ambient temperature, store at -20°C.

GENE INFORMATION

Gene Name	UCP1 uncoupling protein 1 (mitochondrial, proton carrier) [Homo sapiens]
Official Symbol	UCP1

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Synonyms	UCP1; uncoupling protein 1 (mitochondrial, proton carrier); UCP; mitochondrial brown fat uncoupling protein 1; SLC25A7; thermogenin; solute carrier family 25 member 7;
Entrez Gene ID	7350
mRNA Refseq	NM_021833
Protein Refseq	NP_068605
UniProt ID	P25874
Chromosome Location	4q28-q31
Pathway	Adipogenesis, organism-specific biosystem; Electron Transport Chain, organism-specific biosystem; Huntingtons disease, organism-specific biosystem; Huntingtons disease, conserved biosystem; Metabolism, organism-specific biosystem; Mitochondrial Uncoupling Proteins, organism-specific biosystem; PPAR signaling pathway, organism-specific biosystem;
Function	anion transmembrane transporter activity; oxidative phosphorylation uncoupler activity;

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