

Human Mitochondrial Uncoupling Protein 2 (UCP2) ELISA Kit | UCP2 elisa kit

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CATALOG #
AAA330317

REACTIVITY
Human

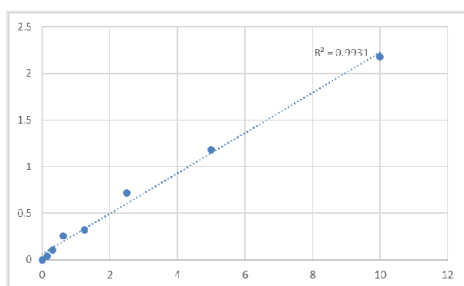
PRODUCT SYNONYMS

Mitochondrial Uncoupling Protein 2 (UCP2); Human Mitochondrial Uncoupling Protein 2 (UCP2) ELISA Kit; UCP2; BMIQ4; SLC25A8; UCPH; uncoupling protein 2; UCP2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Human Mitochondrial uncoupling protein 2 (UCP2) ELISA Kit has high sensitivity and excellent specificity for detection of Human UCP2. No significant cross-reactivity or interference between Human UCP2 and analogues was observed.
Sequence Length	309
Assay Type	Sandwich ELISA (Quantitative)
Samples	Cell Culture Supernatants, Serum, Plasma, Other Biological Fluids
Detection Method	Colorimetric
Usage Notes	* Do not mix components from different kit lots or use reagents beyond the kit expiration date. * Allow all reagents to warm to room temperature for at least 30 minutes before opening. * Pre-rinse the pipet tip with reagent, use fresh pipet tips for each sample, standard and reagent to avoid contamination. * Unused wells must be kept desiccated at 4 degree C in the sealed bag provided. * Mix Thoroughly is very important for the result. It is recommended using low frequency oscillator or slight hand shaking every 10 minutes. * It is recommended that all samples and standards be assayed in duplicate or triplicate.
Preparation and Storage	Store at 2-8 degree C.

IMAGES



Standard Curve (Sample)

Fig.1. Human Mitochondrial uncoupling protein 2 (UCP2) Standard Curve.

ADDITIONAL INFORMATION

Related Product Information for UCP2 elisa kit	Description: This Human Mitochondrial uncoupling protein 2 (UCP2) ELISA Kit employs a two-site sandwich ELISA to quantitate UCP2 in samples. An antibody specific for UCP2 has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any UCP2 present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for UCP2 is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of UCP2 bound in the initial step. The color development is stopped and the intensity of the color is measured. Background: 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. Mitochondrial uncoupling protein 2 is expressed in many tissues, with the greatest expression in skeletal muscle. Although it was originally thought to play a role in nonshivering thermogenesis, obesity and diabetes, it now appears that the main function of UCP2 is the control of mitochondria-derived reactive oxygen species. Chromosomal order is 5'-UCP3-UCP2-3'.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	2497981
NCBI GeneID	7351
UniProt Accession #	P55851
NCBI Official Full Name	Mitochondrial uncoupling protein 2
NCBI Official Synonym Full Names	uncoupling protein 2
NCBI Official Symbol	UCP2
NCBI Official Synonym Symbols	UCPH; BMIQ4; SLC25A8
NCBI Protein Information	mitochondrial uncoupling protein 2
UniProt Protein Name	Mitochondrial uncoupling protein 2
UniProt Gene Name	UCP2
UniProt Synonym Gene Names	SLC25A8; UCP 2
UniProt Entry Name	UCP2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.