

Human Uncoupling Protein 4, Mitochondrial (UCP4) ELISA Kit | UCP4 elisa kit

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CATALOG #
AAA189818

REACTIVITY
Human

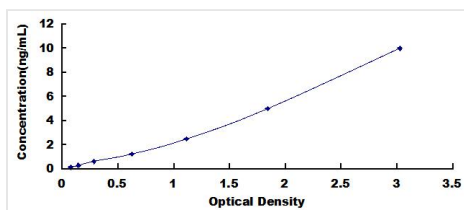
PRODUCT SYNONYMS

Uncoupling Protein 4; Mitochondrial (UCP4); Human Uncoupling Protein 4; Mitochondrial (UCP4) ELISA Kit; SLC25A27; Solute Carrier Family 25 Member 27; UCP4/Uncoupling Protein 4; Mitochondrial; UCP4 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of UCP4. No significant cross-reactivity or interference between UCP4 and analogues was observed.
Assay Type	Quantitative Sandwich
Samples	Human tissue homogenates, cell lysates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	< 0.056ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level UCP4 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level UCP4 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	Store at 4 degree C for 1 month/-20 degree C for long-term (within shelf life) Shelf Life: 8 months The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for UCP4 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to UCP4. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to UCP4. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain UCP4, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm $\pm$ 10nm. The concentration of UCP4 in the samples is then determined by comparing the O.D. of the samples to the standard curve. Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of UCP4 in human tissue homogenates, cell lysates and other biological fluids.
Product Categories/Family for UCP4 elisa kit	Signal transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	323098332
NCBI GeneID	9481
NCBI Accession #	NP_001190980.1
NCBI GenBank Nucleotide #	NM_001204051.1
UniProt Accession #	O95847; Q5VTS9; Q8N518; F5GWR4
Molecular Weight	27,210 Da
NCBI Official Full Name	mitochondrial uncoupling protein 4 isoform 2
NCBI Official Synonym Full Names	solute carrier family 25, member 27
NCBI Official Symbol	SLC25A27
NCBI Official Synonym Symbols	UCP4
NCBI Protein Information	mitochondrial uncoupling protein 4; UCP 4
UniProt Protein Name	Mitochondrial uncoupling protein 4
UniProt Gene Name	SLC25A27
UniProt Synonym Gene Names	UCP4; UCP 4
UniProt Entry Name	UCP4_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.

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Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/uncoupling-protein-4-mitochondrial-ucp4/189818>