

Human Uncoupling Protein 3, Mitochondrial (UCP3) ELISA Kit | UCP3 elisa kit

Human Uncoupling Protein 3, Mitochondrial (UCP3) ELISA Kit

CATALOG #
AAA189837

REACTIVITY
Human

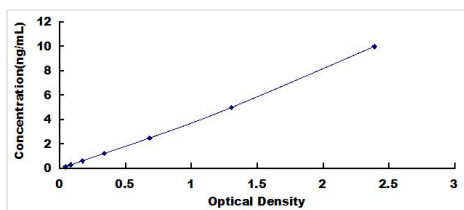
PRODUCT SYNONYMS

Uncoupling Protein 3; Mitochondrial (UCP3); Human Uncoupling Protein 3; Mitochondrial (UCP3) ELISA Kit; SLC25A9; Mitochondrial; Proton Carrier; Solute carrier family 25 member 9; UCP3/Uncoupling Protein 3; UCP3 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of UCP3. No significant cross-reactivity or interference between UCP3 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	< 0.063ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level UCP3 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 UCP3 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 UCP3 elisa kit	Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to UCP3. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to UCP3. 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 UCP3, 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 ± 10nm. The concentration of UCP3 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 UCP3 in human tissue homogenates, cell lysates and other biological fluids.
Product Categories/Family for UCP3 elisa kit	Signal transduction

NCBI AND UNIPROT INFORMATION

NCBI GI #	2497983
NCBI GeneID	7352
UniProt Accession #	P55916; O60475; Q96HL3
Molecular Weight	312
NCBI Official Full Name	Mitochondrial uncoupling protein 3
NCBI Official Synonym Full Names	uncoupling protein 3 (mitochondrial, proton carrier)
NCBI Official Symbol	UCP3
NCBI Official Synonym Symbols	SLC25A9
NCBI Protein Information	mitochondrial uncoupling protein 3; solute carrier family 25 member 9
UniProt Protein Name	Mitochondrial uncoupling protein 3
UniProt Gene Name	UCP3
UniProt Synonym Gene Names	SLC25A9; UCP 3
UniProt Entry Name	UCP3_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/human-elisa-kits/uncoupling-protein-3-mitochondrial-ucp3/189837>