

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

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CATALOG #
AAA139277

REACTIVITY
Rat

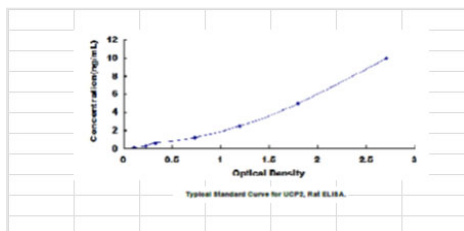
PRODUCT SYNONYMS

Uncoupling Protein 2; Mitochondrial (UCP2); Rat Uncoupling Protein 2; Mitochondrial (UCP2) ELISA Kit; SLC25A8; UCPH; Solute carrier family 25 member 8; UCP2 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Rat
Specificity	This assay has high sensitivity and excellent specificity for detection of UCP2. No significant cross-reactivity or interference between UCP2 and analogues was observed.
Sequence Length	309
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	0.156-10ng/mL
Sensitivity	0.055ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level UCP2 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 UCP2 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	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 UCP2 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of UCP2 in rat tissue homogenates, cell lysates and other biological fluids. Principle of the Assay: The microplate provided in this kit has been pre-coated with an antibody specific to UCP2. Standards or samples are then added to the appropriate microplate wells with a biotin-conjugated antibody specific to UCP2. 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 UCP2, 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 UCP2 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Product Categories/Family for UCP2 elisa kit	Developmental science

NCBI AND UNIPROT INFORMATION

NCBI GI #	525507148
NCBI GeneID	101104932
NCBI Accession #	NP_001267611.1
NCBI GenBank Nucleotide #	NM_001280682.1
NCBI Official Full Name	mitochondrial uncoupling protein 2
NCBI Official Symbol	UCP2
NCBI Protein Information	mitochondrial uncoupling protein 2

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/rat-elisa-kits/uncoupling-protein-2-mitochondrial-ucp2/139277>