

Human Uncoupling Protein 1, Mitochondrial (UCP1) ELISA Kit | UCP1 elisa kit

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CATALOG #
AAA13915

REACTIVITY
Human

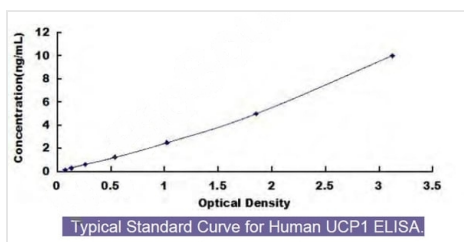
PRODUCT SYNONYMS

Uncoupling Protein 1; Mitochondrial (UCP1); Human Uncoupling Protein 1; Mitochondrial (UCP1) ELISA Kit; SLC25A7; UCP; Thermogenin; Solute carrier family 25 member 7; UCP1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of UCP1. No significant cross-reactivity or interference between UCP1 and analogues was observed.
Sequence Length	307
Assay Type	Quantitative Sandwich
Samples	Human tissue homogenates, cell lysates or 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 UCP1 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 UCP1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for UCP1 elisa kit	Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to UCP1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to UCP1. 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 UCP1, 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 UCP1 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 the in vitro quantitative measurement of UCP1 in human tissue homogenates, cell lysates or other biological fluids.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	11225256
NCBI GeneID	7350
NCBI Accession #	NP_068605.1
NCBI GenBank Nucleotide #	NM_021833.4
UniProt Accession #	P25874; Q13218; Q4KMZ3; Q68G66
Molecular Weight	33,005 Da
NCBI Official Full Name	mitochondrial brown fat uncoupling protein 1
NCBI Official Synonym Full Names	uncoupling protein 1
NCBI Official Symbol	UCP1
NCBI Official Synonym Symbols	UCP; SLC25A7
NCBI Protein Information	mitochondrial brown fat uncoupling protein 1
UniProt Protein Name	Mitochondrial brown fat uncoupling protein 1
UniProt Gene Name	UCP1
UniProt Synonym Gene Names	UCP 1Curated

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-1-mitochondrial-ucp1/13915>