

Human TMLHE (Trimethyllysine dioxygenase, mitochondrial) ELISA Kit | TMLHE elisa kit

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CATALOG #
AAA248317

REACTIVITY
Human

PRODUCT SYNONYMS

TMLHE (Trimethyllysine dioxygenase; mitochondrial); Human TMLHE (Trimethyllysine dioxygenase; mitochondrial) ELISA Kit; TMLHE elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of TMLHE. No significant cross-reactivity or interference between TMLHE and analogues was observed.
Sequence Length	421
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.313-20ng/ml
Sensitivity	0.188ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level TMLHE were tested 20 times on one plate, respectively. Intra-Assay: CV<8%
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level TMLHE were tested on 3 different plates, 8 replicates in each plate. CV (%) = SD/meanX100. Inter-Assay: CV<10%
Preparation and Storage	Store entire kit at 2-8C for short-term. For longer-term, please store the microplate & standard at -20C, while the remaining reagents can be stored at 2-8C

IMAGES

Typical Data & Standard Curve

Results of a typical standard operation of a TMLHE ELISA Kit are listed below. This standard curve was generated at our lab for demonstration purpose only. Users shall obtain standard curve as per experiment by themselves. (N/A/not applicable)

X	ng/ml	0	0.312	0.625	1.25	2.5	5	10	20
Y	OD450	0.17	0.224	0.246	0.31	0.528	0.848	1.349	2.531

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TMLHE elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti-TMLHE antibody was pre-coated onto 96-well plates. And the biotin conjugated anti-TMLHE antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and washed with wash buffer. HRP-Streptavidin was added and unbound conjugates were washed away with wash buffer. TMB substrates were used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the TMLHE amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of TMLHE can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	8922625
NCBI GeneID	55217
NCBI Accession #	NP_060666.1
NCBI GenBank Nucleotide #	NM_018196.3
UniProt Accession #	Q9NVH6; Q5TZB5; Q6IA90; Q8TBT0; A8K6M9; B4E3R3
Molecular Weight	50,832 Da
NCBI Official Full Name	trimethyllysine dioxygenase, mitochondrial isoform 1
NCBI Official Synonym Full Names	trimethyllysine hydroxylase, epsilon
NCBI Official Symbol	TMLHE
NCBI Official Synonym Symbols	TMLD; TMLH; BBOX2; AUTSX6; TMLHED; XAP130
NCBI Protein Information	trimethyllysine dioxygenase, mitochondrial
UniProt Protein Name	Trimethyllysine dioxygenase, mitochondrial
UniProt Gene Name	TMLHE
UniProt Synonym Gene Names	TMLH; TML dioxygenase; TMLD

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/tmlhe-trimethyllysine-dioxygenase-mitochondrial/248317>