

Human Tissue transglutaminase ELISA Kit | tTG elisa kit

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CATALOG #
AAA99709

REACTIVITY
Human

PRODUCT SYNONYMS

Tissue transglutaminase; Human Tissue transglutaminase ELISA Kit; TGM2 (Transglutaminase 2; Tissue)/Ttg/TGC/tTG/C polypeptide/protein-glutamine gamma-glutamyltransferase 2/protein-glutamine-gamma-glutamyltransferase/TG (C)/TG2/TGase C/TGase H/TGase-2/TGase-H/TGCGNAH/Tissue transglutaminase; tTG elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of tTG. No significant cross-reactivity or interference between tTG and analogues was observed.
Sequence Length	15
Assay Type	Sandwich ELISA, Double Antibody
Samples	Serum, Plasma, Cell Culture Supernatant, cell or tissue lysate, Other liquid samples
Detection Range	0.156-10ng/ml
Sensitivity	0.094ng/ml
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level tTG 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 tTG 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 run of a tTG ELISA Kit are shown below. This standard curve was generated at our lab for demonstration purpose only. Each user should obtain their own standard curve as per experiment. (N/A=not applicable)

X	ng/ml	0	0.156	0.312	0.625	1.25	2.5	5	10
Y	OD450	0.173	0.452	0.538	0.973	1.441	1.914	2.25	2.653

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for tTG elisa kit

Principle of the Assay: This kit was based on sandwich enzyme-linked immune-sorbent assay technology. Anti- tTG antibody was pre-coated onto 96-well plates. And the biotin conjugated anti- tTG antibody was used as detection antibodies. The standards, test samples and biotin conjugated detection antibody were added to the wells subsequently, and wash 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 tTG amount of sample captured in plate. Read the O.D. absorbance at 450nm in a microplate reader, and then the concentration of tTG can be calculated.

NCBI AND UNIPROT INFORMATION

NCBI GI #	13183616
NCBI GeneID	7052
Molecular Weight	38,671 Da
NCBI Official Full Name	tissue transglutaminase, partial
NCBI Official Synonym Full Names	transglutaminase 2
NCBI Official Symbol	TGM2
NCBI Official Synonym Symbols	TG2; TGC; GNAH; HEL-S-45; G-ALPHA-h
NCBI Protein Information	protein-glutamine gamma-glutamyltransferase 2
UniProt Protein Name	Protein-glutamine gamma-glutamyltransferase 2
UniProt Gene Name	TGM2
UniProt Synonym Gene Names	TG(C); TGC; TGase C; TGase H; TGase-2
UniProt Entry Name	TGM2_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/ttg-human-elisa-kits/tissue-transglutaminase/99709>