

Transglutaminase 2, Tissue (TGM2) CLIA Kit | TGM2 clia kit

CLIA Kit for Transglutaminase 2, Tissue (TGM2)

CATALOG #
AAA129904

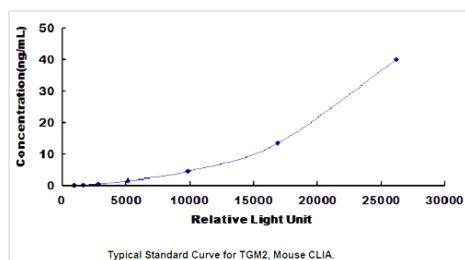
PRODUCT SYNONYMS

Transglutaminase 2; Tissue (TGM2); CLIA Kit for Transglutaminase 2; TGM2 clia kit

PRODUCT SPECIFICATIONS

Specificity	This assay has high sensitivity and excellent specificity for detection of TGM2. No significant cross-reactivity or interference between TGM2 and analogues was observed.
Sequence Length	687
Intended Uses	The Chemiluminescent Immunoassay kit is designed for the in vitro sensitive quantitative measurement of TGM2 in mouse serum, plasma, tissue homogenates and other biological fluids.
Detection Range	0.05-40ng/mL. The standard curve concentrations used for the CLIA's were 40ng/mL, 13.33ng/mL, 4.44ng/mL, 1.48ng/mL, 0.49ng/mL, 0.16ng/mL, 0.05ng/mL.
Sensitivity	The minimum detectable dose of TGM2 is typically less than 0.01 ng/mL. The sensitivity of this assay, or Lower Limit of Detection (LLD) was defined as the lowest protein concentration that could be differentiated from zero. It was determined the mean RLU value of 20 replicates of the zero standard added by their three standard deviations.
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level TGM2 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 TGM2 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 TGM2 clia kit	Principle of the assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to TGM2. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to TGM2 . Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. Then the mixture of substrate A and B is added to generate glow light emission kinetics. Upon plate development, the intensity of the emitted light is proportional to the TGM2 level in the sample or standard.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	50593093
NCBI GeneID	7052
UniProt Accession #	P21980; Q16436; Q6B838; Q9BTN7; Q9UHH3; E1P5V9
Molecular Weight	77,329 Da
NCBI Official Full Name	transglutaminase 2
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; TG(C); TGase C; TGase H; TGase-2; TGase-H; transglutaminase C; transglutaminase H; transglutaminase-2; tissue transglutaminase; epididymis secretory protein Li 45; protein-glutamine-gamma-glutamyltransferase; C polypeptide, protein-glutamine-gamma-glutamyltransferase
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/clia-kits/transglutaminase-2-tissue-tgm2/129904>