

Human Transglutaminase 1, Keratinocyte (TGM1) ELISA Kit | TGM1 elisa kit

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CATALOG #
AAA67236

REACTIVITY
Human

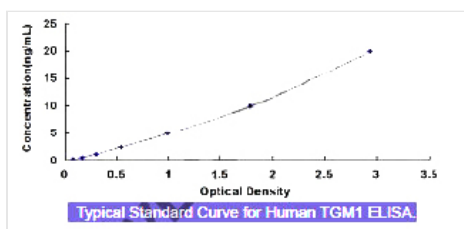
PRODUCT SYNONYMS

Transglutaminase 1; Keratinocyte (TGM1); Human Transglutaminase 1; Keratinocyte (TGM1) ELISA Kit; ISGF-3; P113; STAT113; TGM1 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	This assay has high sensitivity and excellent specificity for detection of TGM1. No significant cross-reactivity or interference between TGM1 and analogues was observed.
Sequence Length	817
Samples	Human tissue homogenates or other biological fluids
Assay Type	Quantitative Sandwich
Detection Range	0.312-20ng/mL
Sensitivity	<0.121ng/mL
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level TGM1 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 TGM1 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 TGM1 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for the in vitro quantitative measurement of TGM1 in human tissue homogenates or other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to TGM1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to TGM1. 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 TGM1, 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 TGM1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4507475
NCBI GeneID	7051
NCBI Accession #	NP_000350.1
NCBI GenBank Nucleotide #	NM_000359.2
UniProt Accession #	P22735; Q197M4; B4DWR7
Molecular Weight	40,628 Da
NCBI Official Full Name	protein-glutamine gamma-glutamyltransferase K
NCBI Official Synonym Full Names	transglutaminase 1
NCBI Official Symbol	TGM1
NCBI Official Synonym Symbols	LI; KTG; LI1; TKG; ICR2; ARCI1; TGASE
NCBI Protein Information	protein-glutamine gamma-glutamyltransferase K
UniProt Protein Name	Protein-glutamine gamma-glutamyltransferase K
UniProt Gene Name	TGM1
UniProt Synonym Gene Names	KTG; TG(K); TKG; TGase K; TGase-1

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.