

Rabbit TGM2 Polyclonal Antibody | anti-TGM2 antibody

TGM2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325945	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

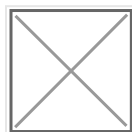
PRODUCT SYNONYMS

TGM2; Polyclonal Antibody; TGM2 Antibody; ALPHA SUBUNIT; C polypeptide; EC 2.3.2.13; epididymis secretory protein Li 45; G alpha h; G[a]h; Gh CLASS G ALPHA h; GNAH; GNAH G PROTEIN; H POLYPEPTIDE; HEL-S-45; Protein glutamine gamma glutamyltransferase 2; Protein-glutamine gamma-glutamyltransferase 2; TG 2; TG(C); TG2; TGase C; TGase H; TGase-2; Tgasell; TGC; TGC GUANINE NUCLEOTIDE BINDING PROTEIN; TGM2_HUMAN; Tissue transglutaminase; Transglutaminase 2; Transglutaminase 2 C polypeptide; Transglutaminase C; Transglutaminase H; Transglutaminase-2; tTG; tTGas; anti-TGM2 antibody

PRODUCT SPECIFICATIONS

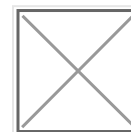
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	TGM2 antibody detects endogenous levels of total TGM2
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	687
Applicable Applications for anti-TGM2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human TGM2
Tissue Specificity	By retinoic acid.
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)

AAA325945 at 1/100 staining Human urothelial cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



WB (Western Blot)

Western blot analysis of Hela using TGM2 antibody. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)

AAA325945 staining HuvEc cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-TGM2 antibody	Description: Transglutaminase 2 (TGM2) is a calcium-dependent enzyme that cross-links both cytosolic and extracellular matrix proteins by catalyzing the formation of bonds between lysine and glutamine residues (1). This bifunctional enzyme also has intrinsic GTPase activity, and it has been suggested that regulation of the transamidase activity might be regulated through a G-protein coupled receptor-signaling pathway (2). In cross-linking peptides, TGM2 helps to regulate cytoskeletal structure, cell migration, apoptosis and cell-matrix adhesion. In addition, the enzyme plays an important role in wound healing and the immune response (3). TGM2 has exhibited kinase activity in vitro, with insulin-like growth factor-binding protein-3 (IGFBP-3) as one possible substrate (4). This widely expressed protein is localized to the cytosol and nucleus, but has also been isolated from the cell surface and extracellular matrix (reviewed in 5). Because of its interaction with a number of different substrates, and its role in the response to injury, TGM2 has been associated with the pathology of a number of human disorders. It has long been recognized as the major autoantigen in celiac disease (6); altered TGM2 expression or activity may be associated with Alzheimer disease, Huntington disease, arteriosclerosis, diabetes, and numerous forms of cancer (reviewed in 7). Function: Catalyzes the cross-linking of proteins and the conjugation of polyamines to proteins. Subunit Structure: Monomer. Similarity: Belongs to the transglutaminase superfamily. Transglutaminase family.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	1020158911
NCBI GeneID	7052
NCBI Accession #	NP_001310245.1
NCBI GenBank Nucleotide #	NM_001323316.1
UniProt Accession #	P21980; Q16436; Q6B838; Q9BTN7; Q9H035; Q9UH35; E1P5V9
Molecular Weight	Observed: 77 kDa Predicted: 78 kDa
NCBI Official Full Name	protein-glutamine gamma-glutamyltransferase 2 isoform a
NCBI Official Synonym Full Names	transglutaminase 2
NCBI Official Symbol	TGM2
NCBI Official Synonym Symbols	TGC; TG(C)
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

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.