

Rabbit TGM2 Polyclonal Antibody | anti-TGM2 antibody

Anti-TGM2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA11646	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry

PRODUCT SYNONYMS

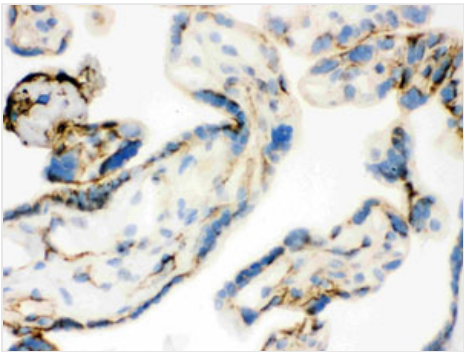
TGM2; Polyclonal Antibody; Anti-TGM2 Antibody; Protein-glutamine gamma-glutamyltransferase 2; ALPHA SUBUNIT; C polypeptide; EC 2.3.2.13; G alpha h; G protein alpha subunit Gh class; G[a]h; Gh CLASS G ALPHA h; GNAH; GNAH G PROTEIN; Guanine nucleotide binding protein H polypeptide; H POLYPEPTIDE; Protein glutamine gamma glutamyltransferase 2; Protein glutamine gamma glutamyltransferase; TG 2; TG(C); TG2; TGase C; TGase H; TGase-2; Tgasell; TGC; TGC GUANINE NUCLEOTIDE BINDING PROTEIN; TGM 2; TGM2_HUMAN; Tissue transglutaminase; Tissue type transglutaminase; Transglutaminase 2; Transglutaminase 2 C polypeptide; Transglutaminase C; Transglutaminase H; Transglutaminase-2; tTG; tTGas antibody; transglutaminase 2; anti-TGM2 antibody

PRODUCT SPECIFICATIONS

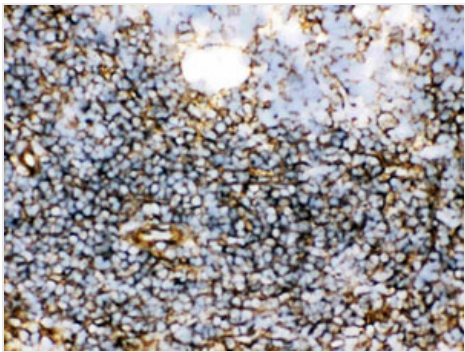
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	No cross reactivity with other proteins.
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	687
Applicable Applications for anti-TGM2 antibody	WB (Western Blot), IHC (Immunohistochemistry)

Application Notes	Western Blot
	Concentration: 0.1-0.5 ug/ml Tested Species: Human, Rat
	Immunohistochemistry (Paraffin-embedded Section)
	Concentration: 0.5-1 ug/ml Tested Species: Human, Mouse, Rat Antigen Retrieval: By Heat
	Immunohistochemistry (Frozen Section):
	Concentration: 0.5-1 ug/ml Tested Species: Human, Mouse, Rat.
	WB: The detection limit for TMG2 is approximately 0.1 ng/lane under reducing conditions.
	Tested Species: In-house tested species with positive results.
	By Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0 for 20 mins is required for the staining of formalin/paraffin sections.
	Other applications have not been tested.
	Optimal dilutions should be determined by end users.
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminus of human TGM2 (7-34aa LERCDLELETNGRDHHTADLCREKLVR), different from the related mouse sequence by five amino acids.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20° for one year. After reconstitution, at 4°C for one month. It can also be aliquoted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

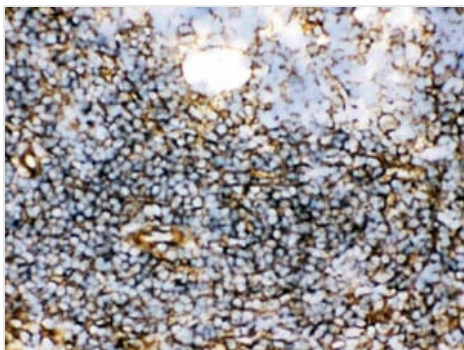
IMAGES



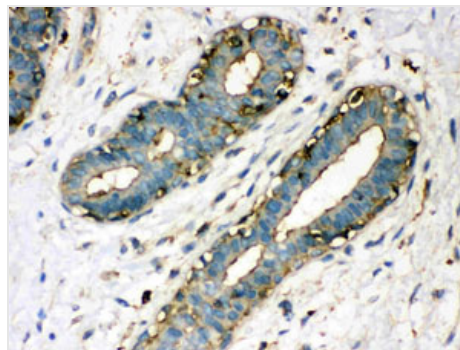
IHC (Immunohistochemistry)
Anti- TGM2 Picoband antibody, AAA11646, IHC(F)IHC(F): Human Placenta Tissue



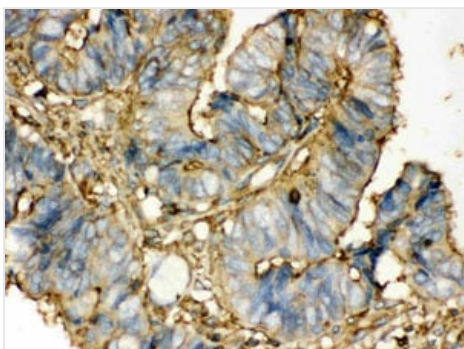
IHC (Immunohistochemistry)
Anti- TGM2 Picoband antibody, AAA11646, IHC(F)IHC(F): Rat Spleen Tissue



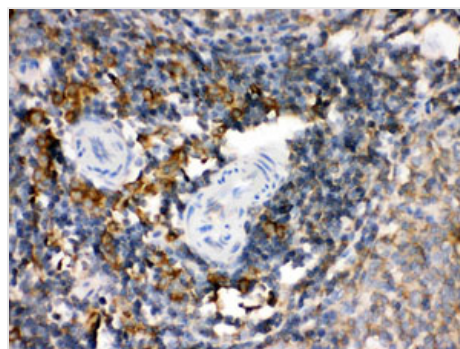
IHC (Immunohistochemistry)
Anti- TGM2 Picoband antibody, AAA11646, IHC(F)IHC(F): Mouse Spleen Tissue



IHC (Immunohistochemistry)
Anti- TGM2 Picoband antibody, AAA11646, IHC(P)IHC(P): Human Mammary Cancer Tissue



IHC (Immunohistochemistry)
Anti- TGM2 Picoband antibody, AAA11646, IHC(P)IHC(P): Human Intestinal Cancer Tissue



IHC (Immunohistochemistry)
Anti- TGM2 Picoband antibody, AAA11646, IHC(P)IHC(P): Rat Spleen Tissue

ADDITIONAL INFORMATION

Related Product Information for anti-TGM2 antibody	Description: Rabbit IgG polyclonal antibody for Protein-glutamine gamma-glutamyltransferase 2(TGM2) detection. Tested with WB, IHC-P, IHC-F in Human;Mouse;Rat. Background: Tissue transglutaminase, also called TGC, is a 78-kDa, calcium dependent enzyme of the protein-glutamine gamma-glutamyltransferases family. By fluorescence in situ hybridization (FISH), this gene is mapped in 20q11.23. Transglutaminases are enzymes that catalyze the crosslinking of proteins by epsilon-gamma glutamyl lysine isopeptide bonds. While the primary structure of transglutaminases is not conserved, they all have the same amino acid sequence at their active sites and their activity is calcium-dependent. The protein encoded by this gene acts as a monomer, is induced by retinoic acid, and appears to be involved in apoptosis. Finally, the encoded protein is the autoantigen implicated in celiac disease.
References	- Antonyak, M. A., Jansen, J. M., Miller, A. M., Ly, T. K., Endo, M., Cerione, R. A. Two isoforms of tissue transglutaminase mediate opposing cellular fates. <i>Proc. Nat. Acad. Sci.</i> 103: 18609-18614, 2006. - Mastroberardino, P. G., Iannicola, C., Nardacci, R., Bernassola, F., de Laurenzi, V., Melino, G., Moreno, S., Pavone, F., Oliverio, S., Fesus, L., Piacentini, M. 'Tissue' transglutaminase ablation reduces neuronal death and prolongs survival in a mouse model of Huntington's disease. <i>Cell Death Differ.</i> 9: 873-880, 2002. - Priglinger, S. G., May, C. A., Neubauer, A. S., Alge, C. S., Schoenfeld, C.-L., Kampik, A., Welge-Lussen, U. Tissue transglutaminase as a modifying enzyme of the extracellular matrix in PVR membranes. <i>Invest. Ophthalm. Vis. Sci.</i> 44: 355-364, 2003.

NCBI AND UNIPROT INFORMATION

NCBI GI #	39777597
NCBI GeneID	7052
NCBI Accession #	NP_004604.2
NCBI GenBank Nucleotide #	NM_004613.3
UniProt Accession #	P21980 ; Q16436 ; Q6B838 ; Q9BTN7 ; Q9UH35 ; E1P5V9
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
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/polyclonal/tgm2-antibody-western-blot-immunohistochemistry-elisa/11646>