

Mouse Transglutaminase II (TGM2) Monoclonal Antibody | anti-TGM2 antibody

Transglutaminase II (TGM2) Mouse Monoclonal Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA62779	Mouse	Human, Monkey, Rabbit, Mouse, Rat	Immunohistochemistry, Immunofluorescence, Flow Cytometry, Functional Assay

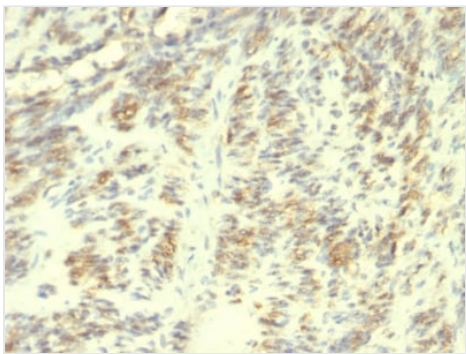
PRODUCT SYNONYMS

Transglutaminase II (TGM2); Monoclonal Antibody; Transglutaminase II (TGM2) Mouse Monoclonal Antibody; G alpha h; G[a]h; GNAH; Guanine nucleotide binding protein H polypeptide; Protein-glutamine gamma-glutamyltransferase 2; TG(C); TG2; TGase C; TGase H; TGase-2; Tgasell; TGC; TGM2; Tissue type transglutaminase; Transglutaminase 2 C polypeptide; Transglutaminase C; Transglutaminase H; Transglutaminase-2; tTG; tTGas; anti-TGM2 antibody

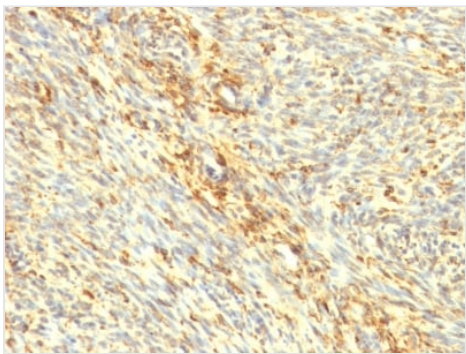
PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human, Monkey, Rabbit, Mouse, Rat
Clonality	Monoclonal
Isotype	IgG2a, kappa
Clone Number	TGM2/419
Specificity	Recognizes a 77-85kDa protein, identified as cellular or tissue transglutaminase II (TGase II). 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. The identification of transglutaminase as the main antigen of endomysium antibodies allows a new approach to celiac disease (CD), a genetic, immunologically mediated small bowel enteropathy that causes malabsorption. TGase II is implicated in programmed cell death, signal transduction, drug-resistance, cell growth, endocytosis, insulin secretion, cell adhesion, cataract formation, and wound healing.
Form/Format	200ug/ml of Ab purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	687
Applicable Applications for anti-TGM2 antibody	IHC (Immunohistochemistry), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Cellular Localization	Cytoplasmic and Cell Surface
Immunogen	Recombinant full-length human TGM2 protein
Hu-Chromosome Location	20q12
Positive Control	HUVEC Cells. Endothelial cells in placenta, liver, brain, or breast carcinoma. Smooth muscle cells of any origin (e.g. intestine)
Preparation and Storage	Antibody with azide - store at 2 to 8 degree C. Antibody without azide - store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

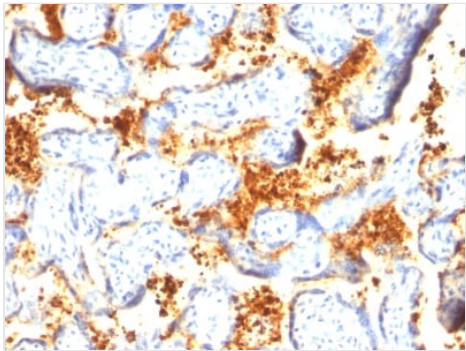
IMAGES



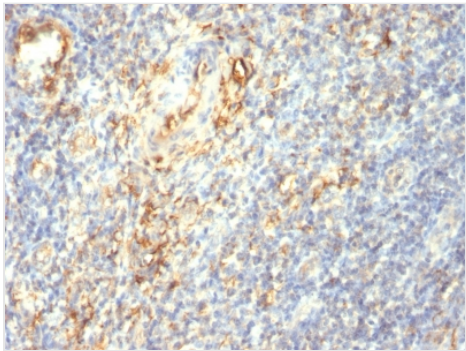
IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Leiomyosarcoma stained with Transglutaminase II Monoclonal Antibody (TGM2/419)



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Uterus stained with Transglutaminase II Monoclonal Antibody (TGM2/419)



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Placenta stained with Transglutaminase II Monoclonal Antibody (TGM2/419)



IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Tonsil stained with Transglutaminase II Monoclonal Antibody (TGM2/419)

ADDITIONAL INFORMATION

References	Yamanishi, K., et al. 1991. Molecular cloning of human epidermal transglutaminase cDNA from keratinocytes in culture. Biochem. Biophys. Res. Commun. 175: 906-913.
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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; Q9UH35; E1P5V9
Molecular Weight	77-85kDa
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/monoclonal/transglutaminase-ii-tgm2-antibody-clone-tgm2-419-immunohistochemistry-immunofluorescence-flow-cytometry-elisa/62779>