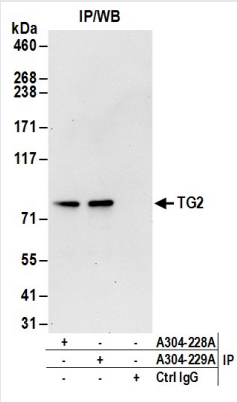
TG2 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	TG2, Polyclonal Antibody
Full Product Name	Rabbit anti-TG2 Antibody, Affinity Purified
Product Gene Name	anti-TG2 antibody
Product Synonym Gene Name	TGM2
Product Synonym Names	TGC; Transglutaminase-2; transglutaminase H; tissue transglutaminase; TGase-2; C polypeptide, protein-glutamine-gamma-glutamyltransferase; TGase C; TG(C); protein-glutamine gamma-glutamyltransferase 2; TGase H; transglutaminase C; Protein-glutamine gamma-glutamyltransferase 2; transglutaminase 2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Purity/Purification	Antigen Affinity Purified
Concentration	1000ug/ml (lot specific)
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt
Molecular Weight	77,329 Da
Chromosome Location	Chromosome: 20; NC_000020.10 (36756863..36793700, complement). Location: 20q12
OMIM	190196
3D Structure	ModBase 3D Structure for P21980
Immunogen	Between 575 and 625
Conjugation	Unconjugated
Product Categories/Family for anti-TG2 antibody	Primary Antibodies
Applications Tested/Suitable for anti-TG2 antibody	Immunoprecipitation (IP)
Application Notes for anti-TG2 antibody	IP: 6ug/mg lysate
Related Product Information for anti-TG2 antibody	Tissue transglutaminase (TG2) catalyzes the cross-linking of proteins and the conjugation of polyamines to proteins [taken from the Universal Protein Resource (UniProt) www.uniprot.org/uniprot/P21980].
Other Notes	Small volumes of anti-TG2 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for TG2 purchase	MBS3904428 is an antibody targeting TG2. Also known as Rabbit anti-TG2 Antibody, Affinity Purified. Reactive in Human. Host: Rabbit.



Immunoprecipitation (IP) of anti-TG2 antibody
Detection of human TG2 by western blot of immunoprecipitates. Samples: Whole cell lysate (1 mg for IP; 20% of IP loaded) from HeLa cells. Antibodies: Affinity purified rabbit anti-TG2 antibody MBS3904428 (lot MBS3904428-1) used for IP at 6 ug/mg lysate. TG2 was also immunoprecipitated by rabbit anti-TG2 antibody MBS3904429. For blotting immunoprecipitated TG2, MBS3904429 was used at 0.1 ug/ml. Detection: Chemiluminescence with an exposure time of 30 seconds.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TG2. It may not necessarily be applicable to this product.

NCBI GI #	39777597
NCBI GeneID	7052
NCBI Accession #	NP_004604.2
UniProt Primary Accession #	P21980
UniProt Secondary Accession #	Q16436; Q6B838; Q9BTN7; Q9UH35; E1P5V9
UniProt Related Accession #	P21980
GenBank Nucleotide #	NM_004613.2
NCBI Official Full Name	protein-glutamine gamma-glutamyltransferase 2 isoform a
NCBI Official Synonym Full Names	transglutaminase 2 (C polypeptide, protein-glutamine-gamma-glutamyltransferase)
NCBI Official Symbol	TGM2
NCBI Official Synonym Symbols	TG2; TGC; GNAH; G-ALPHA-h
UniProt Protein Name	Protein-glutamine gamma-glutamyltransferase 2
UniProt Synonym Protein Names	Tissue transglutaminase; Transglutaminase C; TG(C); TGC; TGase C; Transglutaminase H; TGase H; Transglutaminase-2
UniProt Gene Name	TGM2
UniProt Synonym Gene Names	TG(C); TGC; TGase C; TGase H; TGase-2
UniProt Entry Name	TGM2_HUMAN
NCBI Protein Information	protein-glutamine gamma-glutamyltransferase 2; TG(C); TGase C; TGase H; TGase-2; TGase-H; C polypeptide; transglutaminase C; transglutaminase H; transglutaminase-2; tissue transglutaminase; protein-glutamine-gamma-glutamyltransferase

NCBI Summary for TG2	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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jul 2008]
UniProt Comments for TG2	TGM2: an enzyme of the transglutaminase family that catalyzes the crosslinking of proteins and the conjugation of polyamines to proteins. 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. . Is the autoantigen in coeliac disease and plays a role in apoptosis, cellular differentiation and matrix stabilisation. Three alternatively spliced isoforms have been described. Protein type: Transferase; EC 2.3.2.13 Chromosomal Location of Human Ortholog: 20q12 Cellular Component: focal adhesion; mitochondrion; plasma membrane; cytosol Molecular Function: protein domain specific binding; protein binding; GTP binding; protein-glutamine gamma-glutamyltransferase activity; metal ion binding Biological Process: elevation of cytosolic calcium ion concentration during G-protein signaling, coupled to IP3 second messenger (phospholipase C activating); positive regulation of I-kappaB kinase/NF-kappaB cascade; positive regulation of cell adhesion; isopeptide cross-linking via N6-(L-isoglutamyl)-L-lysine; positive regulation of apoptosis; reduction of endoplasmic reticulum calcium ion concentration; positive regulation of smooth muscle cell proliferation; blood vessel remodeling; protein homooligomerization; apoptotic cell clearance; elevation of mitochondrial calcium ion concentration; positive regulation of inflammatory response
Research Articles on TG2	**1.** TGM2 mRNA is regulated by alternative splicing, producing C-terminal truncated forms of TGM2 that are predicted to have distinct biochemical properties and biological functions in cancer, neurodegeneration, inflammation and wound healing[review]
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