

Rabbit anti-Human Transglutaminase 2/TGM2 Polyclonal Antibody | anti-TGM2 antibody

Anti-Transglutaminase 2/TGM2 Antibody, Rabbit Polyclonal

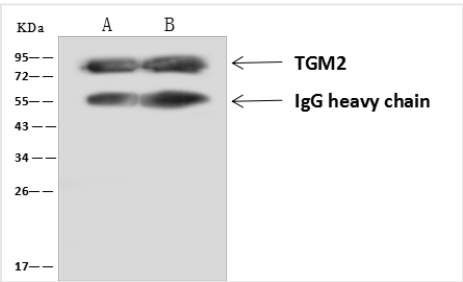
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA255321	Rabbit	Human	Immunoprecipitation, ELISA, Western Blot

PRODUCT SYNONYMS

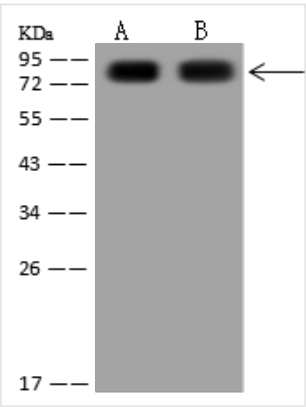
Transglutaminase 2/TGM2; Polyclonal Antibody; Anti-Transglutaminase 2/TGM2 Antibody; Rabbit Polyclonal; Transglutaminase 2/TGM2 Antibody; Rabbit PAb; Antigen Affinity Purified; transglutaminase 2; Anti-G-ALPHA-h Antibody; Anti-GNAH Antibody; Anti-HEL-S-45 Antibody; Anti-TG2 Antibody; Anti-TGC Antibody; anti-TGM2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Human Transglutaminase 2/TGM2
Purity/Purification	Protein A & Antigen Affinity
Form/Format	Liquid; 0.2um filtered solution in PBS
Applicable Applications for anti-TGM2 antibody	IP (Immunoprecipitation), ELISA, WB (Western Blot)
Immunogen	Recombinant Human Transglutaminase 2/TGM2 Protein
Conjugation	Unconjugated
Preparation	Produced in rabbits immunized with purified, recombinant Human Transglutaminase 2/TGM2 (rh Transglutaminase 2/TGM2). Transglutaminase 2/TGM2 specific IgG was purified by Human Transglutaminase 2/TGM2 affinity chromatography.
Preparation and Storage	This antibody can be stored at 2-8 degree C for one month without detectable loss of activity. Antibody products are stable for twelve months from date of receipt when stored at -20 degree C to -80 degree C. Preservative-Free. Avoid repeated freeze-thaw cycles.



IP (Immunoprecipitation)
TGM2 was immunoprecipitated using: Lane A: 0.5 mg HepG2 Whole Cell Lysate; Lane B: 0.5 mg MCF7 Whole Cell Lysate. 4 uL anti-TGM2 rabbit polyclonal antibody and 60 ug of Immunomagnetic beads Protein A/G. Primary antibody: Anti-TGM2 rabbit polyclonal antibody, at 1:100 dilution. Secondary antibody: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 77 kDa. Observed band size: 77 kDa.



WB (Western Blot)
Anti-TGM2 rabbit polyclonal antibody at 1:500 dilution. Lane A: HepG2 Whole Cell Lysate; Lane B: MCF7 Whole Cell Lysate. Lysates/proteins at 30 ug per lane. Secondary: Goat Anti-Rabbit IgG (H+L)/HRP at 1/10000 dilution. Developed using the ECL technique. Performed under reducing conditions. Predicted band size: 77 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-TGM2 antibody	Protein-glutamine gamma-glutamyltransferase 2, also known as Tissue transglutaminase, Transglutaminase C, Transglutaminase-2, and TGM2, is a member of the transglutaminase superfamily. TGM2 plays a role in cell growth and survival through the anti-apoptosis signaling pathway. It is a calcium-dependent acyltransferase that also undergoes a GTP-binding/GTPase cycle even though it lacks any obvious sequence similarity with canonical GTP-binding (G) proteins. TGM2 is a multi-functional protein which catalyzes transamidation reactions or acts as a G-protein in intracellular signalling. As an enzyme which is responsible for the majority of transglutaminase (TG) activity in the brain, TGM2 is likely to play a modulatory role in nervous system development and has regulatory effect on neuronal cell death as well. Most importantly, numerous studies have presented data demonstrating that dysregulation of TGM2 may contribute to the pathogenesis of many neurodegenerative disorders, including Huntington's disease, Alzheimer's disease, Parkinson's disease and amyotrophic lateral sclerosis as well as nervous system injuries.
References	Ruan Q, et al. (2007) Transglutaminase 2 in neurodegenerative disorders. Front Biosci. 12: 891-904. Ai L, et al. (2008) The transglutaminase 2 gene (TGM2), a potential molecular marker for chemotherapeutic drug sensitivity, is epigenetically silenced in breast cancer. Carcinogenesis. 29(3): 510-8. Filiano AJ, et al. (2010) Transglutaminase 2 protects against ischemic stroke. Neurobiol Dis. 39(3): 334-43. Park D, et al. (2010) Transglutaminase 2: a multi-functional protein in multiple subcellular compartments. Amino Acids. 39(3): 619-31. Miyoshi N, et al. (2010) TGM2 is a novel marker for prognosis and therapeutic target in colorectal cancer. Ann Surg Oncol. 17(4): 967-72.

NCBI AND UNIPROT INFORMATION

NCBI GI #	39777597
NCBI GeneID	7052
NCBI Accession #	NP_004604.2
NCBI GenBank Nucleotide #	NM_004613.2
UniProt Accession #	P21980; Q16436; Q6B838; Q9BTN7; Q9UHQ3; E1P5V9
Molecular Weight	77,329 Da
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

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
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/transglutaminase-2-tgm2-antibody-immunoprecipitation-western-blot-elisa/255321>