

Rabbit anti-Human, Mouse TGM2 Polyclonal Antibody | anti-TGM2 antibody

TGM2 Polyclonal Antibody

CATALOG # AAA37335	HOST Rabbit	REACTIVITY Human, Mouse	APPLICATIONS Immunohistochemistry, Western Blot
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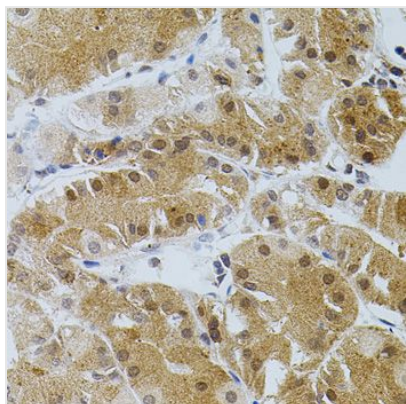
PRODUCT SYNONYMS

TGM2; Polyclonal Antibody; TGM2 Polyclonal Antibody; G-ALPHA-h; GNAH; TG2; TGC; anti-TGM2 antibody

PRODUCT SPECIFICATIONS

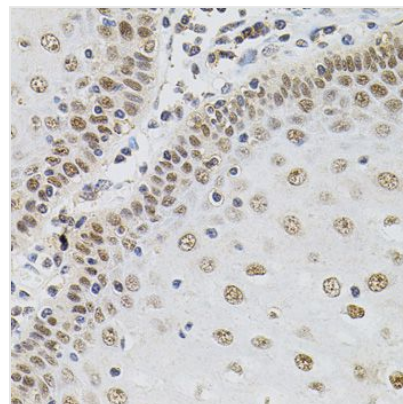
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Affinity Purification
Concentration	1mg/ml (varies by lot)
Sequence Length	687
Applicable Applications for anti-TGM2 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Species	Human
Immunogen	Recombinant Protein
Immunogen	Recombinant protein of human TGM2
Calculated Molecular Weight	77kDa
Preparation and Storage	Store at -20 degree C (regular) or -80 degree C (long term). Avoid freeze / thaw cycles. Buffer: PBS with 0.02% sodium azide, 50% glycerol, pH7.3.

IMAGES



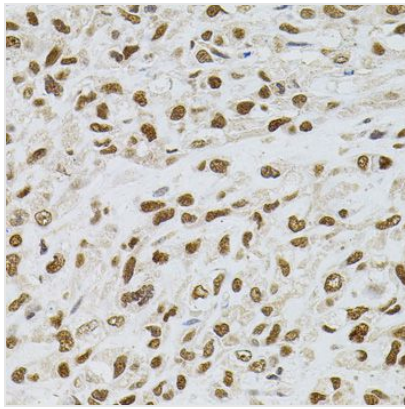
IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human stomach using TGM2 antibody (40x lens).



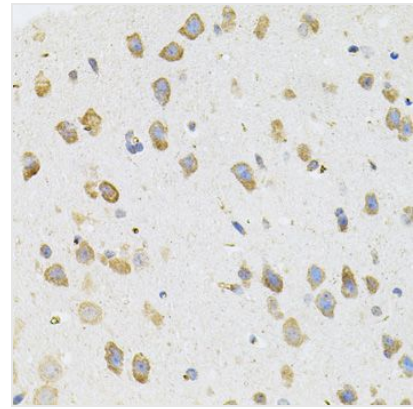
IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human esophagus using TGM2 antibody (40x lens).



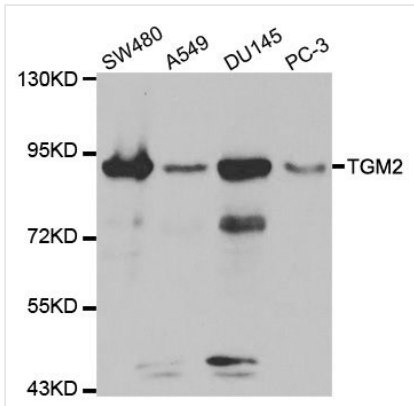
IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded human lung cancer using TGM2 antibody (40x lens).



IHC (Immunohistochemistry)

Immunohistochemistry of paraffin-embedded mouse brain using TGM2 antibody (40x lens).



WB (Western Blot)

Western blot analysis of extracts of various cell lines, using TGM2 antibody at 1:300 dilution. Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST.

ADDITIONAL INFORMATION

Related Product Information for anti-TGM2 antibody

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).

Product Categories/Family for anti-TGM2 antibody

Polyclonal

NCBI AND UNIPROT INFORMATION

NCBI GI #	20141877
NCBI GeneID	7052
UniProt Accession #	P21980 ; Q16436 ; Q6B838 ; Q9BTN7 ; Q9UH35 ; E1P5V9
Molecular Weight	687

NCBI Official Full Name	Protein-glutamine gamma-glutamyltransferase 2
NCBI Official Synonym Full Names	transglutaminase 2
NCBI Official Symbol	TGM2
NCBI Official Synonym Symbols	TG2; TGC; GNAH; HEL-S-45; G-ALPHA-h
NCBI Protein Information	protein-glutamine gamma-glutamyltransferase 2; TG(C); TGase C; TGase H; TGase-2; TGase-H; transglutaminase C; transglutaminase H; transglutaminase-2; tissue transglutaminase; epididymis secretory protein Li 45; protein-glutamine-gamma-glutamyltransferase; C polypeptide, 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/tgm2-antibody-immunohistochemistry-western-blot-elisa/37335>