

Datasheet for ABIN3043989

anti-Transglutaminase 2 antibody (C-Term)



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2 Images

Overview

Quantity:	100 µg
Target:	Transglutaminase 2 (TGM2)
Binding Specificity:	AA 399-418, C-Term
Reactivity:	Human, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Transglutaminase 2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-Transglutaminase 2/TGM2 Antibody Picoband®
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of human TGM2, different from the related mouse sequence by three amino acids, and from the related rat sequence by four amino acids.
Sequence:	ADVVDWIQQD DGSVHKSINR
Isotype:	IgG
Cross-Reactivity (Details):	No cross-reactivity with other proteins
Characteristics:	Anti-Transglutaminase 2/TGM2 Antibody (ABIN3043989). Tested in IHC, ICC, WB applications. This antibody reacts with Human, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband,

Product Details

ensuring unmatched performance.

Purification: Immunogen affinity purified.

Target Details

Target: Transglutaminase 2 (TGM2)

Alternative Name: TGM2 ([TGM2 Products](#))

Background: Synonyms: Protein-glutamine gamma-glutamyltransferase 2,2.3.2.13,Tissue transglutaminase,Transglutaminase C,TG (C),TGC,TGase C,Transglutaminase H,TGase H,Transglutaminase-2,TGase-2,TGM2,
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.
Sequence Similarities: Belongs to the transglutaminase superfamily. Transglutaminase family.

Molecular Weight: 18 kDa

UniProt: [P21980](#)

Pathways: [Tube Formation](#), [Thromboxane A2 Receptor Signaling](#)

Application Details

Application Notes: Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human
Immunocytochemistry , 0.5-1 µg/mL, Human, -
Western blot, 0.1-0.5 µg/mL, Human, Rat
1. 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. Proc. Nat. Acad. Sci. 103: 18609-18614, 2006. 2. 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. Cell Death Differ. 9: 873-880, 2002. 3. 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

Application Details

enzyme of the extracellular matrix in PVR membranes. Invest. Ophthalmol. Vis. Sci. 44: 355-364, 2003.

Comment: Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P) and ICC.

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Concentration: 500 µg/mL

Buffer: Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na₂HPO₄, 0.05 mg Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

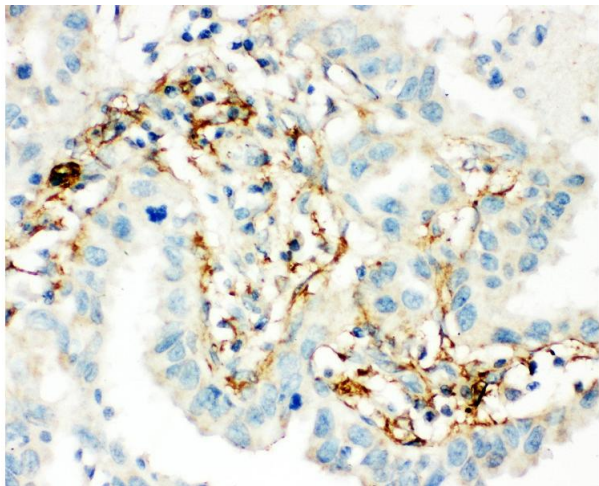
Precaution of Use: This product contains Thimerosal (Merthiolate) and Sodium azide: POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

Storage: 4 °C, -20 °C

Storage Comment: Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.

Expiry Date: 12 months



Immunohistochemistry

Image 1. Anti-Transglutaminase 2 antibody, IHC(P) IHC(P):
Human Lung Cancer Tissue



Western Blotting

Image 2. Anti-Transglutaminase 2 antibody, Western
blotting Lane 1: JURKAT Cell Lysate Lane 2: HELA Cell
Lysate