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Datasheet for ABIN3043946

anti-Transglutaminase 2 antibody (N-Term)

8 Images

Overview

Quantity:	100 µg
Target:	Transglutaminase 2 (TGM2)
Binding Specificity:	AA 7-34, N-Term
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Purpose:	Rabbit IgG polyclonal antibody for Protein-glutamine gamma-glutamyltransferase 2(TGM2) detection. Tested with WB, IHC-P, IHC-F in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the N-terminus of human TGM2 (7-34aa LERCDLELETNGRDHHTADLCREKLVVR), different from the related mouse sequence by five amino acids.
Sequence:	LERCDLELET NGRDHHTADL CREKLVVR
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Protein-glutamine gamma-glutamyltransferase 2(TGM2) detection. Tested with WB, IHC-P, IHC-F in Human,Mouse,Rat. Gene Name: transglutaminase 2

Product Details

Protein Name: Protein-glutamine gamma-glutamyltransferase 2

Purification: Immunogen affinity purified.

Target Details

Target: Transglutaminase 2 (TGM2)

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

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.

Synonyms: ALPHA SUBUNIT antibody|C polypeptide antibody|EC 2.3.2.13 antibody|G alpha h antibody|G protein alpha subunit Gh class antibody|G[a]h antibody|Gh CLASS G ALPHA h antibody|GNAH antibody|GNAH G PROTEIN antibody|Guanine nucleotide binding protein H polypeptide antibody| H POLYPEPTIDE antibody|Protein glutamine gamma glutamyltransferase 2 antibody| Protein glutamine gamma glutamyltransferase antibody|Protein-glutamine gamma-glutamyltransferase 2 antibody|TG 2 antibody|TG(C) antibody|TG2 antibody|TGase C antibody| TGase H antibody| TGase-2 antibody|Tgasell antibody|TGC antibody|TGC GUANINE NUCLEOTIDE BINDING PROTEIN antibody|TGM 2 antibody|TGM2 antibody|TGM2_HUMAN antibody|Tissue transglutaminase antibody| Tissue type transglutaminase antibody|Transglutaminase 2 antibody|Transglutaminase 2 C polypeptide antibody|Transglutaminase C antibody| Transglutaminase H antibody| Transglutaminase-2 antibody|tTG antibody|tTGase antibody

Gene ID: 7052

UniProt: [P21980](#)

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

Application Details

Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Rat, The detection limit for TGM2 is

Application Details

approximately 0.1 ng/lane under reducing conditions.

IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.

IHC-F: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat

Notes: Tested Species: Species with positive results. Other applications have not been tested.

Optimal dilutions should be determined by end users.

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

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 Sodium azide.

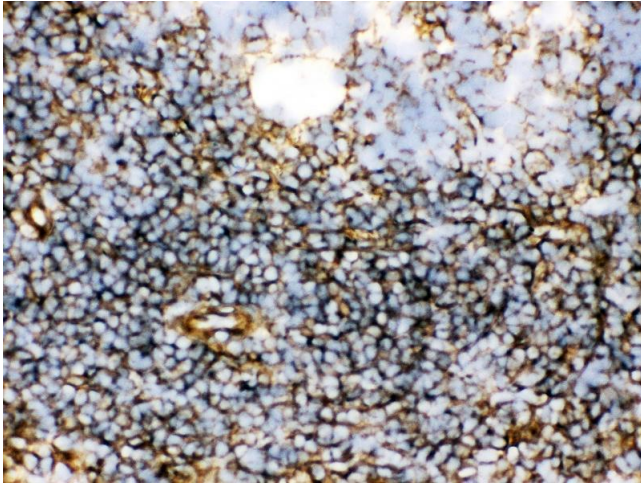
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling Advice: Avoid repeated freezing and thawing.

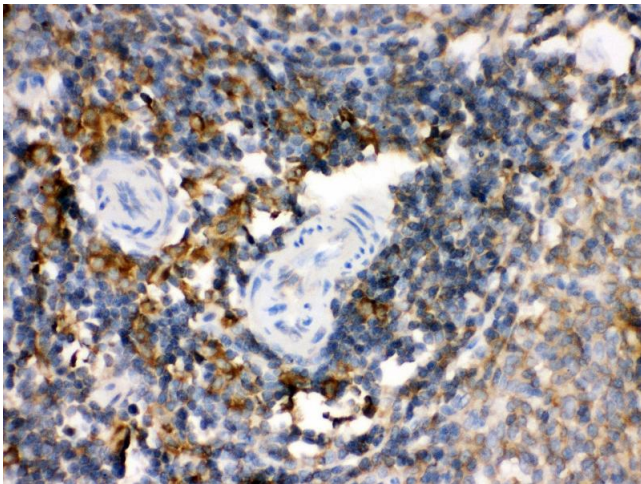
Storage: 4 °C/-20 °C

Storage Comment: At -20°C for one year. After reconstitution, at 4°C for one month.
It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.



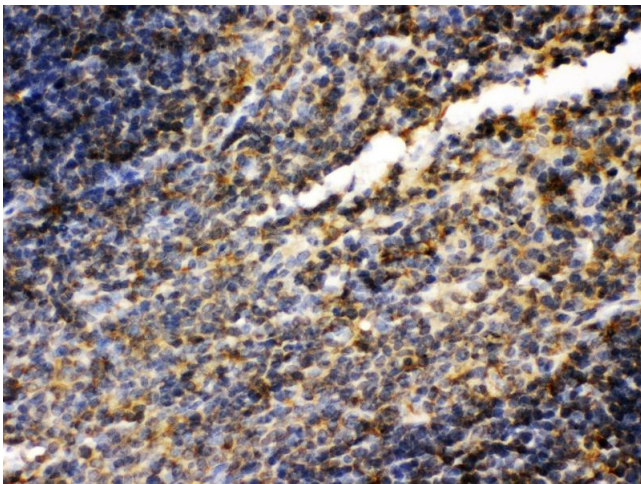
Immunohistochemistry

Image 1. Anti- TGM2 Picoband antibody, IHC(F) IHC(F): Rat Spleen Tissue



Immunohistochemistry

Image 2. Anti- TGM2 Picoband antibody, IHC(P) IHC(P): Rat Spleen Tissue



Immunohistochemistry

Image 3. Anti- TGM2 Picoband antibody, IHC(P) IHC(P): Mouse Spleen Tissue

Please check the [product details page](#) for more images. Overall 8 images are available for ABIN3043946.