Datasheet for ABIN3025598

# anti-Transglutaminase 2 antibody

4 Images

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## Overview

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|---|---|
| Quantity: | 100 µg |
| Target: | Transglutaminase 2 (TGM2) |
| Reactivity: | Human, Mouse, Rat, Monkey, Rabbit |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This Transglutaminase 2 antibody is un-conjugated |
| Application: | Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS) |

## Product Details

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| Immunogen: | Recombinant full-length human protein was used as the immunogen for the Transglutaminase 2 antibody. |
| Clone: | TGM2-419 |
| Isotype: | IgG2a kappa |
| Purification: | Protein G affinity chromatography |

## Target Details

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| Target: | Transglutaminase 2 (TGM2) |
| Alternative Name: | Transglutaminase 2 (TGM2 Products) |
| Background: | Recognizes a 77-85 kDa protein, identified as cellular or tissue transglutaminase II (TGase II). Transglutaminases are enzymes that catalyze the crosslinking of proteins by epsilon-gamma |

## Target Details

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| | 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. The identification of transglutaminase as the main antigen of endomysium antibodies allows a new diagnostic approach to celiac disease (CD), a genetic, immunologically mediated small bowel enteropathy that causes malabsorption. TGase II is implicated in programmed cell death, signal transduction, drug-resistance, cell growth, endocytosis, insulin secretion, cell adhesion, cataract formation, and wound healing. |
| Pathways: | Tube Formation, Thromboxane A2 Receptor Signaling |

## Application Details

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| Application Notes: | Optimal dilution of the Transglutaminase 2 antibody should be determined by the researcher.<br>1. Staining of formalin-fixed tissues requires boiling tissue sections in 10 mM Citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min.<br>2. The prediluted format is supplied in a dropper bottle and is optimized for use in IHC. After epitope retrieval step (if required), drip mAb solution onto the tissue section and incubate at RT for 30 min.\. Flow Cytometry: 0.5-1 µg/million cells in 0.1ml,Immunofluorescence: 0.5-1 µg/mL,Immunohistochemistry (FFPE): 0.5-1 µg/mL for 30 min at RT (1),Prediluted format: incubate for 30 min at RT (2) |
| Restrictions: | For Research Use only |

## Handling

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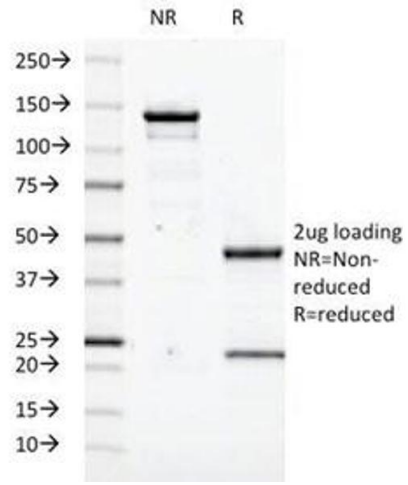
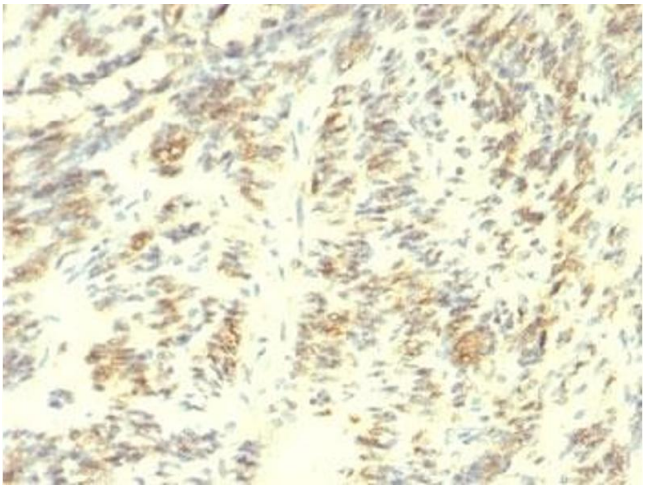
| Concentration: | 1 mg/mL |
| Buffer: | 1 mg/mL in 1X PBS, BSA free, sodium azide free |
| Preservative: | Azide free |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | Store the Transglutaminase 2 antibody at 2-8°C (with azide) or aliquot and store at -20°C or colder (without azide). |

## Images



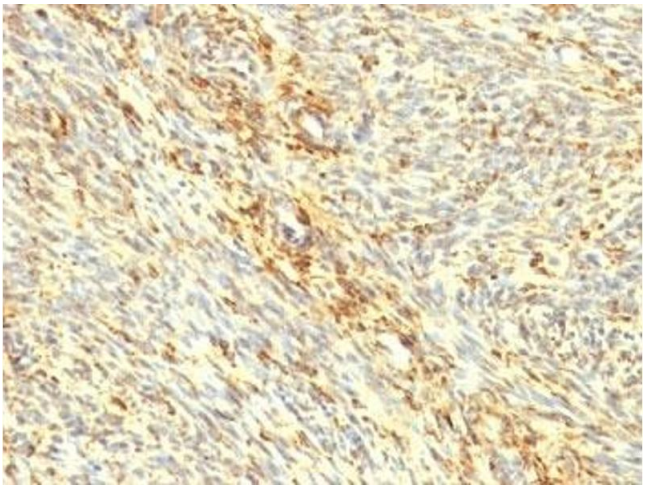

**SDS-PAGE**

**Image 1.** SDS-PAGE Analysis of Purified, BSA-Free Transglutaminase 2 Antibody (clone TGM2/419). Confirmation of Integrity and Purity of the Antibody.



**Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections)**

**Image 2.** Formalin-fixed, paraffin-embedded human Leiomyosarcoma stained with Transglutaminase 2 antibody.



**Immunohistochemistry (Formalin-fixed Paraffin-embedded Sections)**

**Image 3.** Formalin-fixed, paraffin-embedded human uterus stained with Transglutaminase 2 antibody.

Please check the product details page for more images. Overall 4 images are available for ABIN3025598.