

Datasheet for ABIN7600494

## anti-Transglutaminase 2 antibody (AA 2-37)



[Go to Product page](#)

### Overview

|                      |                                                   |
|----------------------|---------------------------------------------------|
| Quantity:            | 100 µg                                            |
| Target:              | Transglutaminase 2 (TGM2)                         |
| Binding Specificity: | AA 2-37                                           |
| Reactivity:          | Human                                             |
| Host:                | Rabbit                                            |
| Clonality:           | Polyclonal                                        |
| Conjugate:           | This Transglutaminase 2 antibody is un-conjugated |
| Application:         | Western Blotting (WB), ELISA                      |

### Product Details

|                             |                                                                                                                                                                                                                                                                                                                                                                                                  |
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| Purpose:                    | Anti-TGM2 Antibody Picoband®                                                                                                                                                                                                                                                                                                                                                                     |
| Immunogen:                  | E.coli-derived human TGM2 recombinant protein (Position: A2-Q37).                                                                                                                                                                                                                                                                                                                                |
| Isotype:                    | IgG                                                                                                                                                                                                                                                                                                                                                                                              |
| Cross-Reactivity (Details): | No cross-reactivity with other proteins.                                                                                                                                                                                                                                                                                                                                                         |
| Characteristics:            | Anti-TGM2 Antibody Picoband® (ABIN7600494). Tested in ELISA, WB applications. This antibody reacts with Human. 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, ensuring unmatched performance. |
| Purification:               | Immunogen affinity purified.                                                                                                                                                                                                                                                                                                                                                                     |

## Target Details

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| Target:           | Transglutaminase 2 (TGM2)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Alternative Name: | TGM2 ( <a href="#">TGM2 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Background:       | <p>Synonyms: Cytokine receptor common subunit beta, GM-CSF/IL-3/IL-5 receptor common beta subunit, CD131, Csf2rb, Aic2b, Csf2rb1, Il3rb1</p> <p>Tissue Specificity: Broadly expressed with higher expression in heart.</p> <p>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.</p> |
| Molecular Weight: | 80 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Gene ID:          | 7052                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| UniProt:          | <a href="#">P21980</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Pathways:         | <a href="#">Tube Formation</a> , <a href="#">Thromboxane A2 Receptor Signaling</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## Application Details

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| Application Notes: | <p>Western blot, 0.25-0.5 µg/mL, Human</p> <p>ELISA, 0.1-0.5 µg/mL, -</p> <p>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 enzyme of the extracellular matrix in PVR membranes. Invest. Ophthalm. Vis. Sci. 44: 355-364, 2003.</p> |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

## Handling

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| Format:          | Lyophilized                                                                                                                                                                                          |
| Reconstitution:  | Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.                                                                                                                            |
| Concentration:   | 500 µg/mL                                                                                                                                                                                            |
| Buffer:          | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                            |
| Storage:         | 4 °C, -20 °C                                                                                                                                                                                         |
| Storage Comment: | At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month.<br>It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing. |