

Datasheet for ABIN7466584  
**anti-Transglutaminase 2 antibody**



[Go to Product page](#)

## Overview

|              |                                                                                                                                        |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------|
| Quantity:    | 100 µL                                                                                                                                 |
| Target:      | Transglutaminase 2 (TGM2)                                                                                                              |
| Reactivity:  | Human                                                                                                                                  |
| Host:        | Rabbit                                                                                                                                 |
| Clonality:   | Polyclonal                                                                                                                             |
| Conjugate:   | This Transglutaminase 2 antibody is un-conjugated                                                                                      |
| Application: | Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunocytochemistry (ICC) |

## Product Details

|                   |                                                                                                                                      |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen:        | Recombinant protein encompassing a sequence within the center region of human Transglutaminase 2. The exact sequence is proprietary. |
| Isotype:          | IgG                                                                                                                                  |
| Specificity:      | Knockdown/Knockout validation was supported by references (PMID:26956429).                                                           |
| Cross-Reactivity: | Human, Mouse                                                                                                                         |
| Purification:     | Purified by antigen-affinity chromatography.                                                                                         |
| Grade:            | KO Validated                                                                                                                         |

## Target Details

|         |                           |
|---------|---------------------------|
| Target: | Transglutaminase 2 (TGM2) |
|---------|---------------------------|

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Alternative Name: | transglutaminase 2 ( <a href="#">TGM2 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Background:       | Transglutaminase 2 , TG(C) , TGC,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. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq] |
| Molecular Weight: | 77 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: | WB: 1:500-1:3000. ICC/IF: 1:100-1:1000. IHC-P: 1:100-1:1000. Optimal dilutions/concentrations should be determined by the researcher. Not tested in other applications. |
| Comment:           | Validation: KO/KD, Orthogonal                                                                                                                                           |
| Restrictions:      | For Research Use only                                                                                                                                                   |

## Handling

|                    |                                                                                                                                                                                                                            |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                                                                                                                                     |
| Concentration:     | 1.05 mg/mL                                                                                                                                                                                                                 |
| Buffer:            | 1XPBS pH 7, 20 % Glycerol, 0.025 % ProClin 300                                                                                                                                                                             |
| Preservative:      | ProClin                                                                                                                                                                                                                    |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                                                                                          |
| Storage:           | 4 °C,-20 °C                                                                                                                                                                                                                |
| Storage Comment:   | Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles. |