

Datasheet for 600-401-FD6**TGM7 Antibody****Overview**

Description:	Anti-TGM7 (RABBIT) Antibody - 600-401-FD6
Item No.:	600-401-FD6
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	Transglutaminases (TGM) are a family of structurally and functionally related Ca ²⁺ -dependent enzymes (TGases) that stabilize protein assemblies through the formation of gamma-glutamyl-epsilon lysine crosslinks. TGases influence numerous biological processes, including blood coagulation, cell differentiation, fertilization and apoptosis. TGM7 belongs to the transglutaminase superfamily and is also thought to catalyze the cross-linking of proteins, often resulting in stabilization of protein assemblies. Little is known of the role of TGM7, but defects in the highly related protein TGM5 are associated with acral peeling skin syndrome.
Synonyms:	TGM7 Antibody, TGMZ, Protein-glutamine gamma-glutamyltransferase Z, Transglutaminase Z, TGZ
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	TGM7
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide
Immunogen:	Anti-TGM7 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 13 amino acid synthetic peptide near the internal region of human TGM7.

Purity/Specificity: Anti-TGM7 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. TGM7 antibody is predicted to not cross-react with other TGase protein family members. At least two isoforms of TGM7 are known to exist; this antibody will recognize both isoforms.

Relevant Links:

- [UniProtKB - Q96PF1](#)
- [GeneID - 116179](#)
- [NCBI - NP_443187.1](#)

Application Details

Tested Applications: ELISA, IF, IHC, WB

Application Note: Anti-TGM7 Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 80 kDa in Western Blots of specific cell lysates and tissues.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:10,000

IF: 10 µg/mL

WB: 1 µg/mL

Formulation

Physical State: Liquid (sterile filtered)

Concentration: 1 mg/mL by UV absorbance at 280 nm

Buffer: 0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2

Preservative: 0.02% (w/v) Sodium Azide

Stabilizer: None

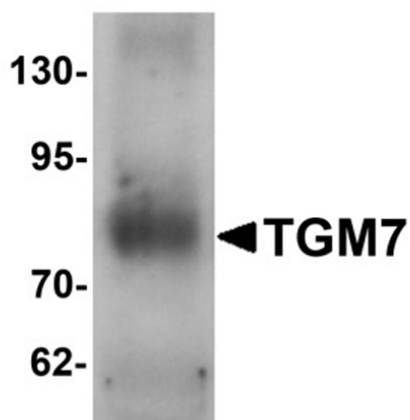
Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

Expiration: Expiration date is one (1) year from date of receipt.

Images



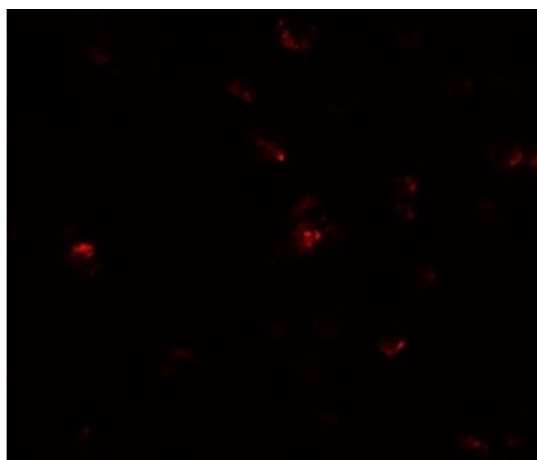
Western Blot

Western blot analysis of TGM7.
Load: human lung tissue lysate.
Primary Antibody: TGM7 antibody at 1 µg/mL.



Immunocytochemistry

Immunocytochemistry of TGM7.
Cell: A549 cells.
Primary Antibody: TGM7 antibody at 2.5 µg/mL.



Immunofluorescence Microscopy

Immunofluorescence of TGM7.
Cell: A549 cells.
Primary Antibody: TGM7 antibody at 10 µg/mL.

Disclaimer

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