

## Anti-TGM5 Antibody

Catalog Number: A08563

### About TGM5

Transglutaminases (TGM) are a family of structurally and functionally related Ca<sup>2+</sup>-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. TGM5 belongs to the transglutaminase superfamily and catalyzes the cross-linking of proteins between glutamine and lysine residues, often resulting in stabilization of protein assemblies. TGM5 is also expressed in the human hair follicle. Defects in TGM5 are associated with acral peeling skin syndrome.

### Overview

|                      |   |
|----------------------|---|
| Product Name         | Anti-TGM5 Antibody  |
| Reactive Species     | Human, Mouse, Rat   |
| Description          | Boster Bio Anti-TGM5 Antibody (Catalog # A08563). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse, Rat.   |
| Application          | ELISA, IF, IHC-P, WB  |
| Clonality            | Polyclonal  |
| Formulation          | TGM5 Antibody is supplied in PBS containing 0.02% sodium azide.   |
| Storage Instructions | TGM5 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures. |
| Host                 | Rabbit  |
| Uniprot ID           | O43548  |

### Technical Details

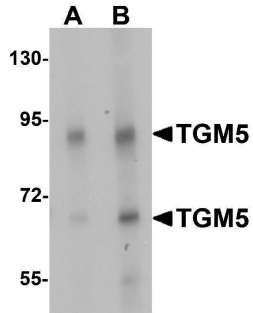
|                            |  |
|----------------------------|--|
| Immunogen                  | TGM5 antibody was raised against a 19 amino acid synthetic peptide near the carboxy terminus of human TGM5. The immunogen is located within the last 50 amino acids of TGM5. |
| Predicted Reactive Species | Bovine   |
| Cross Reactivity           | TGM5 antibody is predicted to not cross-react with other TGase protein family members. Multiple isoforms of TGM5 are known to exist.   |
| Isotype                    | IgG  |
| Form                       | Liquid   |
| Concentration              | 1 mg/mL  |
| Purification               | TGM5 Antibody is affinity chromatography purified via peptide column.  |

Suggested Dilutions

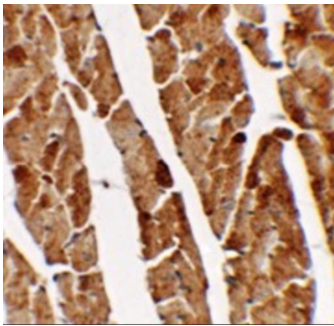
TGM5 antibody can be used for detection of TGM5 by Western blot at 1 - 2 ug/mL. Antibody can also be used for immunohistochemistry starting at 2.5 ug/mL. For immunofluorescence start at 20 ug/mL.

Antibody validated: Western Blot in rat samples; Immunohistochemistry in mouse samples and Immunofluorescence in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

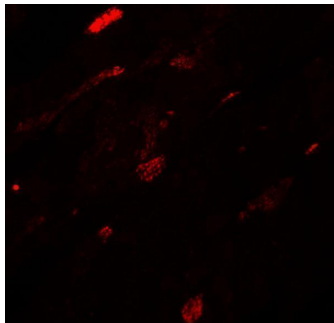
## Anti-TGM5 Antibody (A08563) Images



Western blot analysis of TGM5 in rat heart tissue lysate with TGM5 antibody at (A) 1 and (B) 2 ug/mL.



Immunohistochemistry of TGM5 in mouse heart tissue with TGM5 antibody at 2.5 ug/mL.



Immunofluorescence of TGM5 in mouse heart tissue with TGM5 antibody at 20 ug/mL.

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Anti-TGM5 Antibody

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