

For Research Use Only

# TGM3 Polyclonal antibody

Catalog Number: 21406-1-AP



## Basic Information

Catalog Number:

21406-1-AP

Size:

450 µg/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG16131

GenBank Accession Number:

BC109076

GeneID (NCBI):

7053

UNIPROT ID:

Q08188

Full Name:

transglutaminase 3 (E polypeptide,  
protein-glutamine-gamma-  
glutamyltransferase)

Calculated MW:

693 aa, 77 kDa

Observed MW:

77 kDa; 30-35 kDa; 44-50 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:2000-1:10000

## Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB: SMMC-7721 cells,

## Background Information

TGM3 (Transglutaminase 3) is a Protein Coding gene. Diseases associated with TGM3 include Uncombable Hair Syndrome 2 and Uncombable Hair Syndrome 1. 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 consists of two polypeptide chains activated from a single precursor protein by proteolysis. The encoded protein is involved the later stages of cell envelope formation in the epidermis and hair follicle. TG3 is expressed as an inactive 77 kDa zymogen which must be activated by limited proteolytic processing into two fragments (44 kDa and 30 kDa) of which the larger, N-terminal fragment carries the catalytic activity (PMID: 35328331).

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

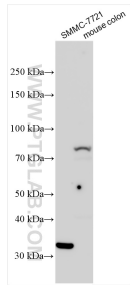
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

W: [ptgcn.com](http://ptgcn.com)

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 21406-1-AP (TGM3 antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.