

For Research Use Only

TGM3 Polyclonal antibody

Catalog Number: 21406-1-AP



Basic Information

Catalog Number: 21406-1-AP	GenBank Accession Number: BC109076	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 450 µg/ml by Nanodrop and 413 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 7053	Recommended Dilutions: WB 1:2000-1:10000
Source: Rabbit	Full Name: transglutaminase 3 (E polypeptide, protein-glutamine-gamma-glutamyltransferase)	
Isotype: IgG	Calculated MW: 693 aa, 77 kDa	
Immunogen Catalog Number: AG16131	Observed MW: 77 kDa; 30-35 kDa; 44-50 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : SMMC-7721 cells,
Species Specificity: human	

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

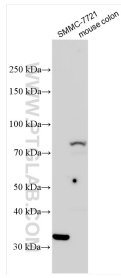
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

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