ARG41126
anti-TGM3 / TGE antibody

Package: 100 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes TGM3 / TGE
Tested Reactivity	Hu, Ms
Tested Application	ICC/IF, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	TGM3 / TGE
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 1-180 of Human TGM3 (NP_003236.3).
Conjugation	Un-conjugated
Alternate Names	Protein-glutamine gamma-glutamyltransferase E; E; Transglutaminase-3; TGE; TGase E; TGase-3; Transglutaminase E; TG; EC 2.3.2.13

Application Instructions

Application table

Application	Dilution
ICC/IF	1:50 - 1:200
WB	1:500 - 1:2000

Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.
Positive Control	BT474
Observed Size	72 kDa

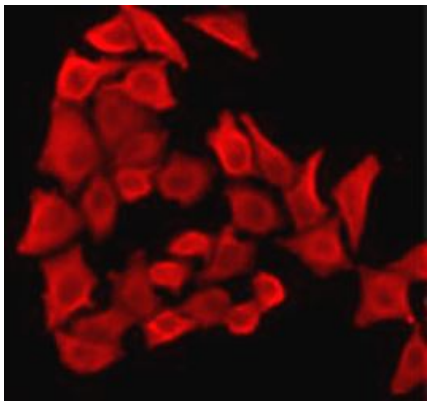
Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.
Note	For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

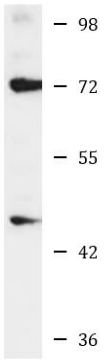
Gene Symbol	TGM3
Gene Full Name	transglutaminase 3
Background	Transglutaminases are enzymes that catalyze the crosslinking of proteins by epsilon-gamma glutamyl lysine isopeptide bonds. While the primary structure of transglutaminases is not conserved, they all have the same amino acid sequence at their 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. [provided by RefSeq, Jul 2008]
Function	Catalyzes the calcium-dependent formation of isopeptide cross-links between glutamine and lysine residues in various proteins, as well as the conjugation of polyamines to proteins. Involved in the formation of the cornified envelope (CE), a specialized component consisting of covalent cross-links of proteins beneath the plasma membrane of terminally differentiated keratinocytes. Catalyzes small proline-rich proteins (SPRR1 and SPRR2) and LOR cross-linking to form small interchain oligomers, which are further cross-linked by TGM1 onto the growing CE scaffold (By similarity). In hair follicles, involved in cross-linking structural proteins to hardening the inner root sheath. [UniProt]
Calculated Mw	77 kDa
PTM	Activated by proteolytic processing. In vitro activation is commonly achieved by cleavage with dispase, a neutral bacterial protease. Dispase cleavage site was proposed to lie between Ser-470 and Ser-471 (PubMed:8099584) or between Pro-465 and Phe-466 (PubMed:16565075). Physiological activation may be catalyzed by CTSL and, to a lesser extent, by CTSS, but not by CTSB, CTSD nor CTSV (PubMed:16565075). [UniProt]
Cellular Localization	Cytoplasm. [UniProt]

Images



ARG41126 anti-TGM3 / TGE antibody ICC/IF image

Immunofluorescence: U2OS cells stained with ARG41126 anti-TGM3 / TGE antibody.



ARG41126 anti-TGM3 / TGE antibody WB image

Western blot: 25 µg of BT474 cell lysate stained with ARG41126 anti-TGM3 / TGE antibody at 1:1000 dilution.