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TGM3 Rabbit pAb

Catalog # AP98130

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q08188
Other Accession	Q08188
Reactivity	Mouse
Predicted	Rat, Human, Rabbit, Dog, Horse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	76632
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human TGM3
Epitope Specificity	601-693/693
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the transglutaminase superfamily. Transglutaminase family.
SUBUNIT	Consists of two polypeptide chains, which are synthesized as a precursor form of a single polypeptide.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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. Transglutaminase 3 consists of two polypeptide chains activated from a single precursor protein by proteolysis. Transglutaminase 3 is involved the later stages of cell envelope formation in the epidermis and hair follicle.

Additional Information

Gene ID	7053
Other Names	TGE; UHS2; TG E; TG(E); TGase E; TGase-3; we; TGM3_HUMAN; TGM3; Transglutaminase E (TG(E) | TGE | TGase E); Transglutaminase-3 (TGase-3); 2.3.2.13; TGM3_MOUSE; Tgase3; transglutaminase 3; transglutaminase 3 (E polypeptide, protein-glutamine-gamma-glutamyltransferase); E polypeptide, protein-glutamine-gamma-glutamyltransferase
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	TGM3
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.
Cellular Location	Cytoplasm.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.