

TGM3 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP17540b**Specification**

TGM3 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [Q08188](#)**TGM3 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 7053**Other Names**

Protein-glutamine gamma-glutamyltransferase E, Transglutaminase E, TG(E), TGE, TGase E, Transglutaminase-3, TGase-3, Protein-glutamine gamma-glutamyltransferase E 50 kDa catalytic chain, Protein-glutamine gamma-glutamyltransferase E 27 kDa non-catalytic chain, TGM3

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

TGM3 Antibody (C-term) Blocking Peptide - 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.

TGM3 Antibody (C-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

TGM3 Antibody (C-term) Blocking Peptide - Images

TGM3 Antibody (C-term) Blocking Peptide - 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 in the later stages of cell envelope formation in the epidermis and hair follicle.

TGM3 Antibody (C-term) Blocking Peptide - References

Yamane, A., et al. FEBS J. 277(17):3564-3574(2010) Rose, J.E., et al. Mol. Med. 16 (7-8), 247-253 (2010) :Negishi, A., et al. Cancer Sci. 100(9):1605-1611(2009) Fujimoto, A., et al. J. Hum. Genet. 54(8):461-465(2009) Uemura, N., et al. Int. J. Cancer 124(9):2106-2115(2009)