

Anti-Transglutaminase 3 Antibody

Catalog # AP60884

Product Information

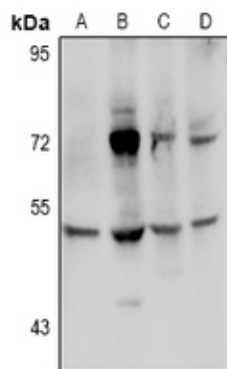
Application	WB, IF/IC
Primary Accession	Q08188
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	76632

Additional Information

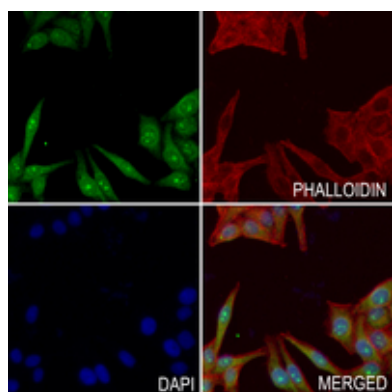
Gene ID	7053
Other Names	Protein-glutamine gamma-glutamyltransferase E; Transglutaminase E; TG(E); TGE; TGase E; Transglutaminase-3; TGase-3
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the C-term region of human Transglutaminase 3. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

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.



Western blot analysis of Transglutaminase 3 expression in LO2 (A), HEK293T (B), CT26 (C), H9C2 (D) whole cell lysates. (Predicted band size: 76 kD; Observed band size: 76; 50 kD)



Immunofluorescent analysis of Transglutaminase 3 staining in MCF7 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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