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**Box 1 | Basic Info**

<b>Cat. No.</b>	ABP-PAB-01916
<b>Animal ID</b>	RC40104
<b>Host</b>	Chicken
<b>Reactivity</b>	Human
<b>Format</b>	Purified
<b>Accession number</b>	NM_004245
<b>Amount</b>	100 µg

**Alternative Name(s):** TGX, TGM6, TGMX, transglutaminase X

## TGM5, Transglutaminase 5 polyclonal antibody

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 5 (TGM5) contributes, as a secondary effect, to the hyperkeratotic phenotype in ichthyosis (both vulgaris and lamellar) and in psoriasis.

### Buffers

Purified chicken polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column and eluted out with both high and low pH buffers and neutralized immediately after elution then followed by dialysis against PBS.

### Immunogen

Partial protein comprised of amino acids 1 - 116 of the human keratin 3B (KRTHA3B) protein.

### Application:

Tested by peptide-specific ELISA (1:1,000).

### Storage:

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

### References:

1. Candi E, Oddi S, Paradisi A, Terrinoni A, Ranalli M, Teofoli P, Citro G, Scarpato S, Puddu P, Melino G: Expression of transglutaminase 5 in normal and pathologic human epidermis. *J. Invest. Dermatol.* 119(3): 670-677 (2002).
2. Grenard P, Bates MK, Aeschlimann D: Evolution of transglutaminase genes: identification of a transglutaminase gene cluster on human chromosome 15q15. Structure of the gene encoding transglutaminase X and a novel gene family member, transglutaminase Z. *J. Biol. Chem.* 276(35): 33066-33078 (2001).
3. Grenard P, Bates MK, Aeschlimann D: Aeschlimann D, Koeller MK, Allen-Hoffmann BL, Mosher DF: Isolation of a cDNA encoding a novel member of the transglutaminase gene family from human keratinocytes. Detection and identification of transglutaminase gene products based on reverse transcription-polymerase chain reaction with degenerate primers. *J. Biol. Chem.* 273(6): 3452-3460 (1998).