TGM2, Transglutaminase 2 (C polypeptide) polyclonal antibody

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Box 1 | Basic Info

Cat. No.	ABP-PAB-01160
Animal ID	RC40104
Host	Chicken
Reactivity	Human
Format	Purified
Accession number	NM_004613
Amount	100 µg

Alternative Name(s): protein-glutamine-gamma-glutamyltransferase

Trans-glutaminases are enzymes that catalyze the cross-linking of proteins by epsilon-gamma glutamyl lysine isopeptide bonds. While the primary structure of trans-glutaminases is not conserved, they all have the same amino acid sequence at their active sites and their activity is calcium-dependent. Trans-glutaminase 2 (TGM2) acts as a monomer, is induced by retinoic acid, and appears to be involved in apoptosis. Additionally, TGM2 is the auto antigen implicated in celiac disease.

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 226 - 366 of the human transglutaminase 2 (TGM2) 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 ar -20°C. Avoid repeated freeze-thaw cycles.

References:

1. Choi YC, Kim TS, Kim SY: Increase in transglutaminase 2 in idiopathic inflammatory myopathies. Eur. Neurol. 51(1): 10-14 (2004).
2. Mohan K, Pinto D, Issekutz TB: Identification of tissue transglutaminase as a novel molecule involved in human CD8+ T cell transendothelial migration. J. Immunol. 171 (6): 3179-3186 (2003).
3. Tucholski J, Johnson GV: Tissue transglutaminase directly regulates adenylyl cyclase resulting in enhanced cAMPresponse element-binding protein (CREB) activation. J. Biol. Chem. 278(29): 26838-26843 (2003).