

AP10441PU-N**Polyclonal Antibody to Transglutaminase-2 (TGM2) - Purified**

Alternate names:	Protein-glutamine gamma-glutamyltransferase 2, TGase C, TGase-H, Tissue transglutaminase
Quantity:	0.1 mg
Concentration:	1 mg/ml
Background:	Transglutaminase II catalyzes calcium-dependent post-translational modification of proteins by formation of an isopeptide bond within or between polypeptide chains. It is also known as TGC, tTG, type II-, Gh, cytosolic-, liver-, endothelial-, erythrocyte-, cellular-transglutaminase. Different tissues and cell types express varying amounts of tissue transglutaminase with a markedly high expression in rheumatoid lesions. It is implicated in programmed cell death, signal transduction, drug-resistance, cell growth, endocytosis, insulin secretion, cell adhesion, cataract formation, and wound healing.
Uniprot ID:	P21980
NCBI:	NP_004604.2
GenelD:	7052
Host:	Rabbit
Immunogen:	A 15 residue synthetic peptide derived from specific domain of Human TG2 protein (tTG)
Format:	State: Lyophilized purified powder Purification: Affinity Chromatography on Protein A Buffer System: 0.1M Tris, 0.1M Glycine and 2% Sucrose Preservatives: None Reconstitution: Restore in distilled water.
Applications:	ELISA. Western Blot: 1/200-1/1000. Immunohistochemistry: 1/200-1/2000. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	Reacts with Human 77 kDa TGM2 protein. This antibody does <u>not</u> cross reacts with Guinea Pig or any isoformes.
Storage:	Prior to reconstitution store the antibody at -20°C. Store reconstituted antibody at 2-8°C for one month or (in aliquots) at -20°C for longer Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Krasnikov BF, Kim SY, McConoughey SJ, Ryu H, Xu H, Stavrovskaya I, et al. Transglutaminase activity is present in highly purified nonsynaptosomal mouse brain and liver mitochondria. <i>Biochemistry</i> . 2005 May 31;44(21):7830-43. PubMed PMID: 15909997.

Pictures:

Western Blot (10% gel) with TGM2 antibody *Cat.-No* AP10441PU-N

