

Datasheet for ABIN2782978

anti-Transglutaminase 2 antibody (Middle Region)



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2 Images

Overview

Quantity:	100 µL
Target:	Transglutaminase 2 (TGM2)
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Rabbit, Guinea Pig, Cow, Dog, Horse, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Transglutaminase 2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human TGM2
Sequence:	VGRDEREDIT HTYKYPEGSS EEREAFTRAN HLNKLAEKEE TGMAMRIRVG
Predicted Reactivity:	Cow: 91%, Dog: 91%, Guinea Pig: 93%, Horse: 91%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 91%
Characteristics:	This is a rabbit polyclonal antibody against TGM2. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	Transglutaminase 2 (TGM2)
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Target Details

Alternative Name:	TGM2 (TGM2 Products)
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. TGM2 acts as a monomer, is induced by retinoic acid, and appears to be involved in apoptosis. Finally, TGM2 is the autoantigen implicated in celiac disease. 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 acts as a monomer, is induced by retinoic acid, and appears to be involved in apoptosis. Finally, the encoded protein is the autoantigen implicated in celiac disease. Two transcript variants encoding different isoforms have been found for this gene. 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 acts as a monomer, is induced by retinoic acid, and appears to be involved in apoptosis. Finally, the encoded protein is the autoantigen implicated in celiac disease. Two transcript variants encoding different isoforms have been found for this gene. Alias Symbols: TG2, TGC, GNAH, G-ALPHA-h Protein Interaction Partner: UBC, SUMO1, NEDD8, YWHAG, UBE2V1, RPS6KA3, PGD, PAK2, LDHB, G6PD, ECHS1, CSE1L, CKB, ZFYVE19, TXNDC5, SMEK2, UBD1, CNDP2, YWHAQ, NPEPPS, SLC9A3R1, YWHAZ, FBXO6, ADAR, ABCA1, A2M, VHL, TGM2, SMAD3, SMAD2, HSPA8, HSPA1B, HSPA1A, HP, HNRNPF, GRN, GCGR, FNTA Protein Size: 548

Molecular Weight:	62 kDa
Gene ID:	7052
NCBI Accession:	NM_198951 , NP_945189
Pathways:	Tube Formation , Thromboxane A2 Receptor Signaling

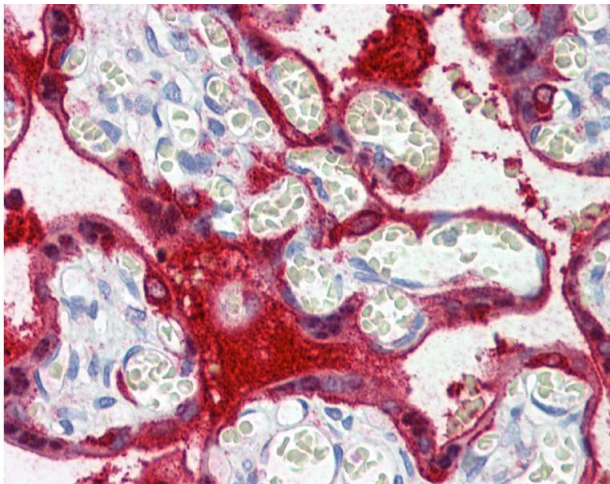
Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 548 AA

Application Details

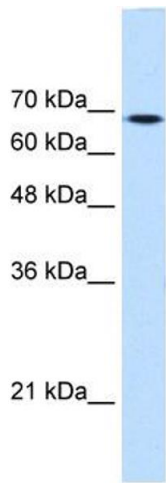
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Immunohistochemistry

Image 1. IHC Information: Paraffin embedded placenta tissue, tested with an antibody dilution of 5 ug/ml.



Western Blotting

Image 2. WB Suggested Anti-TGM2 Antibody Titration: 0.2-1 ug/ml Positive Control: HepG2 cell lysate