antibodies .- online.com







anti-Transglutaminase antibody (AA 429-458)



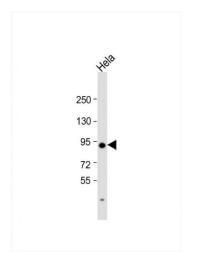


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()Ver	view	

Overview	
Quantity:	400 μL
Target:	Transglutaminase
Binding Specificity:	AA 429-458
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Transglutaminase antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (IF)
Product Details	
Immunogen:	This Transglutaminase (TGM2) antibody is generated from rabbits immunized with a KLH
	conjugated synthetic peptide between 429-458 amino acids from the Central region of human Transglutaminase (TGM2).
Isotype:	lg Fraction
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis
Target Details	
Target:	Transglutaminase
Abstract:	Transglutaminase Products

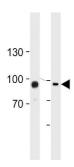
Target Details

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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. It has been identified as the autoantigen implicated in celiac disease.
Molecular Weight:	77 kDa
Gene ID:	7052
UniProt:	P21980
Application Details	
Application Notes:	For WB starting dilution is: 1:1000
	For IF starting dilution is: 1:10~50
	For IHC-P starting dilution is: 1:10~50
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Concentration:	2 mg/mL
Buffer:	Supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which
	should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care
	should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to



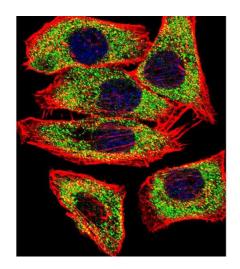
Western Blotting

Image 1. Western Blot at 1:1000 dilution + Hela whole cell lysate Lysates/proteins at 20 ug per lane.



Western Blotting

Image 2. Western blot analysis in HUVEC,K562 cell line lysates (35ug/lane). This demonstrates the TGM2 antibody detected the TGM2 protein (arrow).



Immunofluorescence

Image 3. Fluorescent confocal image of U251 cell stained with.U251 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with TGM2 primary antibody (1:25). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400).Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml). Nuclei were counterstained with DAPI (blue) (10 ug/ml, 10 min).TGM2 immunoreactivity is localized to Cytoplasm significantly.