

Basic Information

Product Name	Anti-TGM2 Antibody
Gene Name	TGM2
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human
Tested Application	WB, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN ₃ , 1 mg/ml BSA and 50% glycerol.
Immunogen	E. coli-derived human TGM2 recombinant protein (Position: A2-Q37). Human TGM2 shares 83.3% and 80.6% amino acid (aa) sequence identity with mouse and rat TGM2, respectively.
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	77 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Enzyme linked immunosorbent assay (ELISA):1:100-1000

Storage

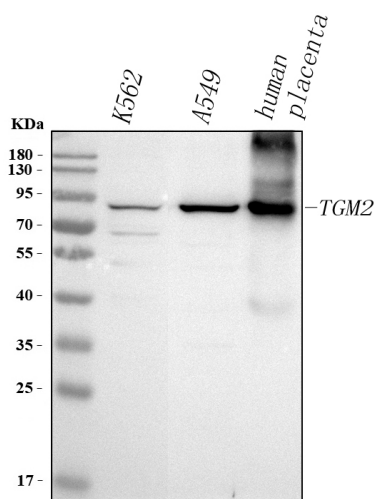
12 months from date of receipt, -20°C as supplied.

Background Information

Tissue transglutaminase, also called TGC, is a 78-kDa, calcium dependent enzyme of the protein-glutamine gamma-glutamyltransferases family. By fluorescence in situ hybridization (FISH), this gene is mapped in 20q11.23.

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.

Selected Validation Data



Western blot analysis of anti-TGM2 antibody (A02229). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human K562 whole cell lysates,

Lane 2: human A549 whole cell lysates,

Lane 3: human placenta tissue lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-TGM2 antigen affinity purified polyclonal antibody (A02229) and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for TGM2 at approximately 80 kDa. The expected band size for TGM2 is at 80 kDa.