

Basic Information

Product Name	Anti-TGM2 Antibody (Clone#ABEG-20)
Gene Name	TGM2
Source	Rabbit
Clonality	Monoclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, IP
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
Immunogen	A synthesized peptide derived from human TGM2
Concentration	500 ug/ml
Purification	Affinity-chromatography
Observed MW	77 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC):1:50-200 ImmunoPrecipitation (IP): 1:20

Storage

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

Background Information

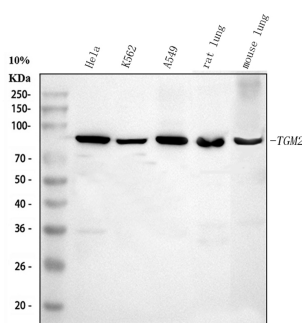
Tissue transglutaminase, also called TGC, is a 78-kDa, calcium dependent enzyme of the protein-glutamine gamma-glutamyltransferases family. By fluorescence in situ hybridization (FISH), this gene is mapped in 20q11.23.

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.

Reference

Anti-TGM2 Antibody (Clone#ABEG-20)被引用在1文献中。

Selected Validation Data



Western blot analysis of anti-TGM2 antibody (BM5139). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.

Lane 1: human HeLa whole cell lysates,

Lane 2: human K562 whole cell lysates,

Lane 3: human A549 whole cell lysates,

Lane 4: rat lung tissue lysates,

Lane 5: mouse lung tissue lysates.

After electrophoresis, proteins were transferred to a membrane.

Then the membrane was incubated with rabbit anti-TGM2 antigen

affinity purified monoclonal antibody (BM5139) 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 77 kDa. The expected band size for TGM2 is at 77

kDa.