

Transglutaminase 2 (TGM2) Rabbit mAb

Catalog No.: A21184 **Recombinant**

Basic Information

Observed MW

77kDa

Calculated MW

77kDa

Category

Primary antibody

Applications

ELISA, WB, IHC-P, IF/ICC

Cross-Reactivity

Human

CloneNo number

ARC52843

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. 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.

Recommended Dilutions

WB	1:2000 - 1:10000
IHC-P	1:500 - 1:1000
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID

7052

Swiss Prot

P21980

Immunogen

Recombinant fusion protein containing a sequence corresponding to amino acids 438-687 of human Transglutaminase 2 (TGM2) (NP_004604.2).

Synonyms

TGC; tTG; G(h); hTG2; TG(C); Transglutaminase 2 (TGM2)

Contact

	400-999-6126
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Product Information

Source

Rabbit

Isotype

IgG

Purification

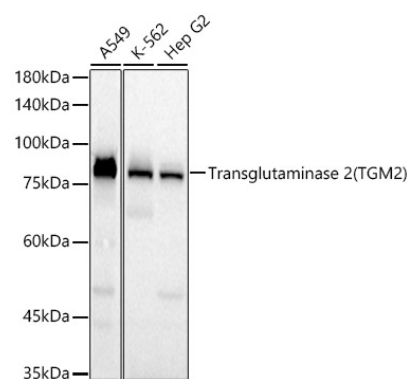
Affinity purification

Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.

Validation Data



Western blot analysis of extracts of various cell lines, using Transglutaminase 2 (TGM2) antibody (A21184) at 1:10000 dilution.

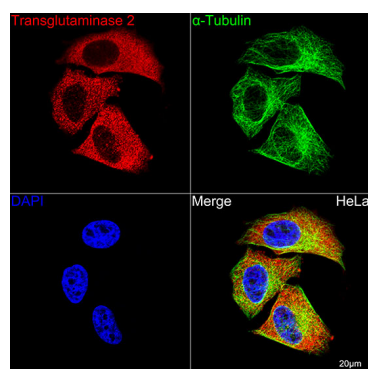
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.

Lysates/proteins: 25µg per lane.

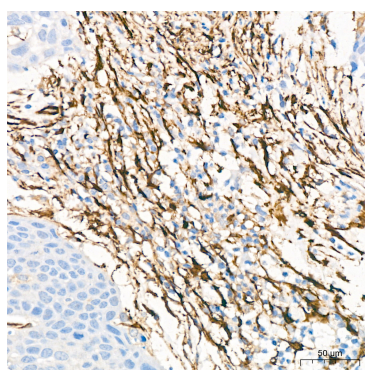
Blocking buffer: 3% nonfat dry milk in TBST.

Detection: ECL Basic Kit (RM00020).

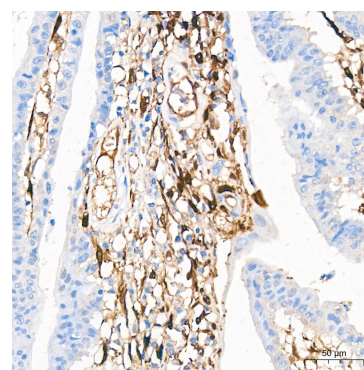
Exposure time: 10s.



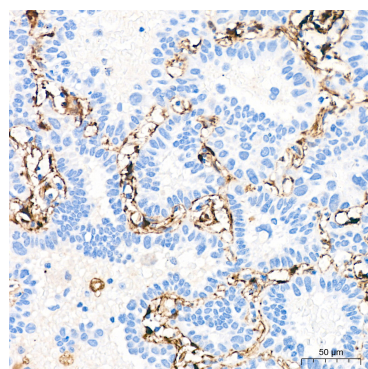
Confocal imaging of HeLa cells using Transglutaminase 2 (TGM2) Rabbit mAb (A21184, dilution 1:200) (Red). The cells were counterstained with α-Tubulin Mouse mAb (AC012, dilution 1:400) (Green). DAPI was used for nuclear staining (blue). Objective: 100x.



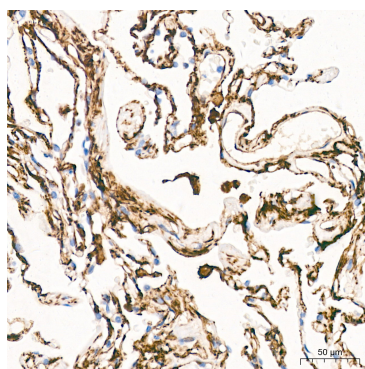
Immunohistochemistry analysis of Transglutaminase 2 (TGM2) in paraffin-embedded human cervix cancer tissue using Transglutaminase 2 (TGM2) Rabbit mAb (A21184) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Transglutaminase 2 (TGM2) in paraffin-embedded human colon carcinoma tissue using Transglutaminase 2 (TGM2) Rabbit mAb (A21184) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Transglutaminase 2 (TGM2) in paraffin-embedded Human lung adenocarcinoma tissue using Transglutaminase 2 (TGM2) Rabbit mAb (A21184) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.



Immunohistochemistry analysis of Transglutaminase 2 (TGM2) in paraffin-embedded human lung tissue using Transglutaminase 2 (TGM2) Rabbit mAb (A21184) at a dilution of 1:1000 (40x lens). High pressure antigen retrieval was performed with 0.01 M citrate buffer (pH 6.0) prior to IHC staining.