SunLong Biotech Co.,LTD
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[Primary Antibody]

Rabbit Anti-Transglutaminase 2 antibody

Catalog Number: SL6196R

FOR RESEARCH USE ONLY

[DATASHEET]

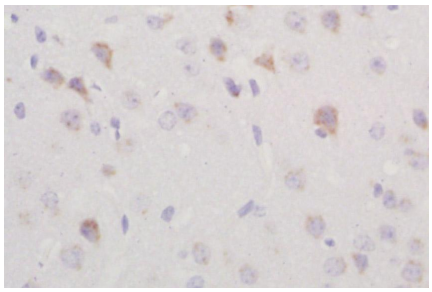
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Transglutaminase 2
Immunogen:	KLH conjugated synthetic peptide derived from human TGM2.: 551-650/687
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	IHC-P=1:100-500 IHC-F=1:100-500 IF=1:100-500 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Rat(predicted:Human,Mouse,Dog,Pig,Cow)
Predicted MW.:	77kDa
Subcellular Location:	cytoplasmic
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. **Function:** Catalyzes the cross-linking of proteins and the conjugation of polyamines to proteins. **Subunit:** Monomer. **Similarity:** Belongs to the transglutaminase superfamily. Transglutaminase family.

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

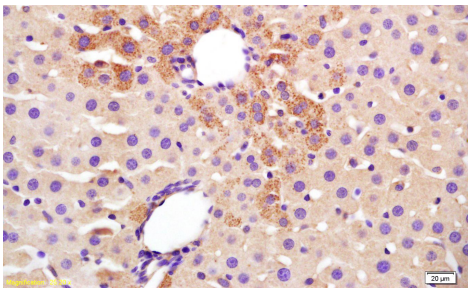
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	Database links: **Entrez Gene:** 7052 Human **Entrez Gene:** 21817 Mouse Omim: 190196 Human **SwissProt:** P21980 Human **SwissProt:** P21981 Mouse **Unigene:** 517033 Human **Unigene:** 330731 Mouse Glutamine transaminase, abbreviated as TG. Microbial glutamine transaminase is widely present in nature in animals, Botany and microorganisms. It is an acyltransferase, an enzyme that catalyzes covalent cross-linking between proteins (or polypeptides). This cross-linking has a significant impact on the properties, coagulation ability, thermal stability and water-holding capacity of proteins. It is also a very commonly used food additive in the food industry.

[VALIDATION IMAGES]



Tissue/cell: rat brain tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min;
Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-TGM2 Polyclonal Antibody, Unconjugated(SL6196R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: rat liver tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min;
Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;
Incubation: Anti-TGM2 Polyclonal Antibody, Unconjugated(SL6196R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

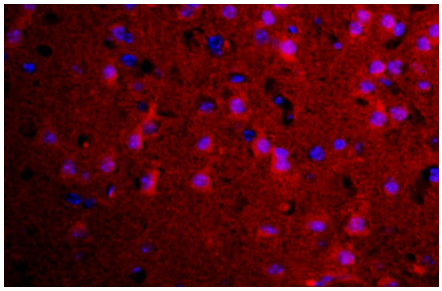
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Tissue/cell: rat brain tissue;4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (1M, pH 6.0), Boiling bathing for 15min;
Blocking buffer (normal goat serum,C-0005) at 37℃ for 20 min;
Incubation: Anti-TGM2 Polyclonal Antibody, Unconjugated(SL6196R) 1:200, overnight at 4°C; The secondary antibody was Goat Anti-Rabbit IgG, Cy3 conjugated(SL0295G-Cy3)used at 1:200 dilution for 40 minutes at 37°C.
DAPI(5ug/ml,blue,C-0033) was used to stain the cell nuclei

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