



Rabbit Anti-Transglutaminase 6 antibody

SL11773R

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| Product Name: | Transglutaminase 6 |
| Chinese Name: | 谷氨酰胺转氨酶6抗体 |
| Alias: | TGase6; Protein-glutamine gamma-glutamyltransferase 6; TG6; TGase Y; TGase-3-like; TGase-6; TGM3L_HUMAN; TGM6; TGY; Transglutaminase Y; Transglutaminase-3-like; Transglutaminase-6. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human,Mouse,Rat,Dog,Cow,Horse,Sheep, |
| Applications: | ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Molecular weight: | 79kDa |
| Cellular localization: | cytoplasmic |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated synthetic peptide derived from human TGase6/Transglutaminase 6:551-640/706 |
| Lsotype: | IgG |
| Purification: | affinity purified by Protein A |
| Storage Buffer: | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| Storage: | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| PubMed: | PubMed |
| Product Detail: | Terminally differentiating mammalian epidermal cells acquire an insoluble, 10 to 20 nm thick protein deposit on the intracellular surface of the plasma membrane, known as the cross-linked cell envelope (CE). The CE is a component of the epidermis that is generated through the formation of disulfide bonds and gamma-glutamyl-lysine |

isodipeptide bonds, which are formed by the action of transglutaminases (TGases). TGases are Ca²⁺-dependent enzymes, which catalyze the formation of isopeptide bonds by transferring an amine to a glutamyl residue, thereby cross-linking glutamine residues and lysine residues in substrate proteins. TGases influence numerous biological processes, including blood coagulation, epidermal differentiation, seminal fluid coagulation, fertilization, cell differentiation and apoptosis. TGase6 (transglutaminase 6), also known as TGM6, TGY or TGM3L, is a 706 amino acid protein that catalyzes the cross-linking of proteins and the conjugation of proteins to polyamines. As a result of alternative splicing, two TGase6 isoforms exist.

Function:

Catalyzes the cross-linking of proteins and the conjugation of polyamines to proteins.

DISEASE:

Defects in TGM6 are the cause of spinocerebellar ataxia type 35 (SCA35) [MIM:613908]. A form of spinocerebellar ataxia, a clinically and genetically heterogeneous group of cerebellar disorders. Patients show progressive incoordination of gait and often poor coordination of hands, speech and eye movements, due to degeneration of the cerebellum with variable involvement of the brainstem and spinal cord. SCA35 patients commonly show upper limb involvement and torticollis. There is no cognitive impairment.

Similarity:

Belongs to the transglutaminase superfamily. Transglutaminase family.

SWISS:

O95932

Gene ID:

343641

Database links:

[Entrez Gene: 343641](#) Human

[Entrez Gene: 241636](#) Mouse

[Entrez Gene: 296152](#) Rat

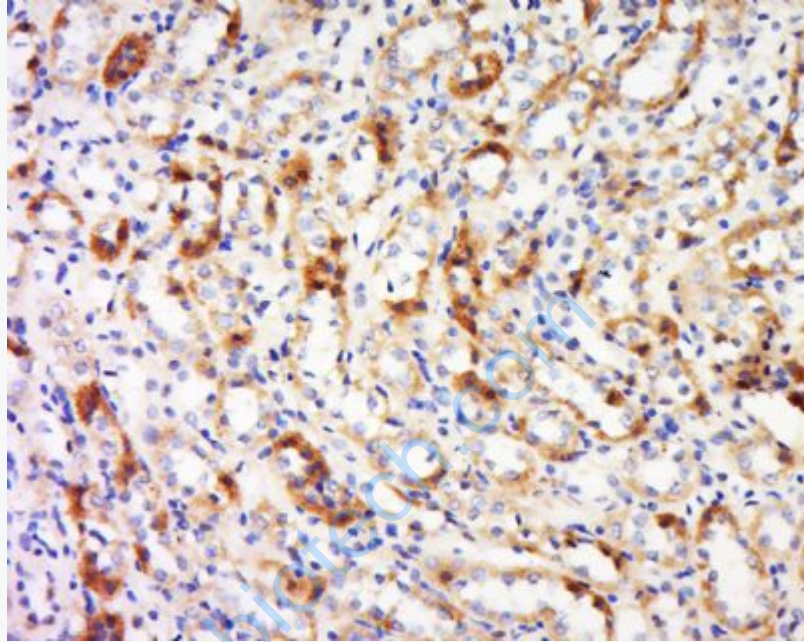
[Oimim: 613900](#) Human

[SwissProt: O95932](#) Human

[Unigene: 452039](#) Human

Important Note:

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



Picture:

Tissue/cell: Rat kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;
Antigen retrieval: citrate buffer (0.01M, 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-TGM6 Polyclonal Antibody, Unconjugated(SL11773R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining