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Transglutaminase-1 Rabbit pAb

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Catalog # AP58491

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	P22735
Reactivity	Rat, Human
Predicted	Pig, Dog, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	89787
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Transglutaminase-1
Epitope Specificity	461-560/817
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Membrane; Lipid-anchor.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Tissue transglutaminase is a calcium activated enzyme which catalyzes the cross linking of proteins and the conjugation of polyamines to proteins. The identification of transglutaminase as the main antigen of endomysium antibodies allows a new diagnostic approach to celiac disease (CD). CD, a genetic, immunologically mediated small bowel enteropathy that causes malabsorption, is a relatively common disorder in Western countries.

Additional Information

Gene ID	7051
Other Names	Protein-glutamine gamma-glutamyltransferase K, 2.3.2.13, Epidermal TGase, Transglutaminase K, TG(K), TGK, TGase K, Transglutaminase-1, TGase-1, Protein-glutamine gamma-glutamyltransferase K 67 kDa chain, Protein-glutamine gamma-glutamyltransferase K 33 kDa chain, TGM1, KTG
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500,Flow-Cyt=0.2ug/test
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	TGM1
Synonyms	KTG
Function	Catalyzes the cross-linking of proteins and the conjugation of polyamines to proteins (PubMed:7629111, PubMed:8824274, PubMed:26220141, PubMed:20663883). Responsible for cross-linking epidermal proteins during formation of the stratum corneum (PubMed:26220141). Involved in cell proliferation (PubMed:26220141).
Cellular Location	Cell membrane; Lipid-anchor. Cytoplasm, cytosol Note=Myristoylation and palmitoylation mediate the membrane localization.

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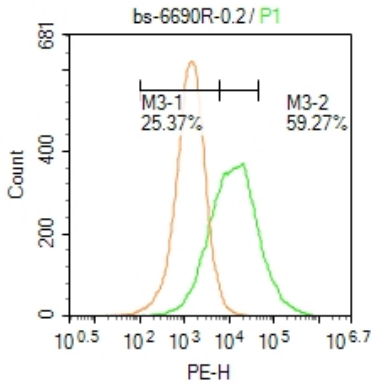
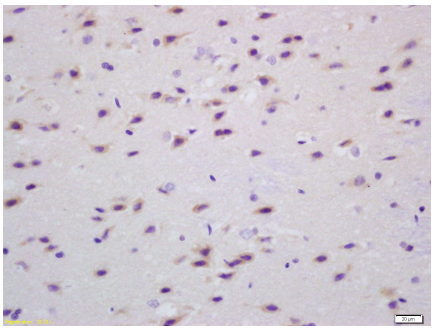
Images



Blank control: Hela.
Primary Antibody (green line): Rabbit Anti-Transglutaminase antibody (AP58491)
Dilution: 1 μg /10^6 cells;
Isotype Control Antibody (orange line): Rabbit IgG .
Secondary Antibody : Goat anti-rabbit IgG-PE
Dilution: 0.2 μg /test.
Protocol
The cells were incubated in 5 %BSA to block non-specific protein-protein interactions for 30 min at at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Tissue/cell: rat brain 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℃ for 20 min;
Incubation: Anti-Transglutaminase Polyclonal Antibody, Unconjugated(AP58491) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining

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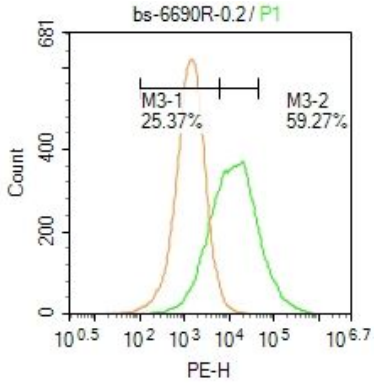

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Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.