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Transglutaminase 4 Rabbit pAb

Catalog # AP99847

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	P49221
Other Accession	P49221
Predicted	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	77145
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Transglutaminase 4
Epitope Specificity	1-100/684
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
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.
Background Descriptions	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 formation of disulfide bonds and gamma-glutamyl-lysine isodipeptide bonds, which are formed by the action of transglutaminases (TGases). TGases are intercellularly localizing, Ca2+-dependent enzymes, which catalyze the formation of isopeptide bonds by transferring an amine on to glutaminyl residues, 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. TGase4, also known as TGM4, TGP or hTGP, is a typical TGase that is specifically expressed in prostate tissue.

Additional Information

Gene ID	7047
Other Names	TGP; hTGP; TGM4_HUMAN; TGM4; Fibrinoligase; Prostate transglutaminase; Prostate-specific transglutaminase; Transglutaminase P (TG(P) | TGP | TGase P); Transglutaminase-4 (TGase-4); 2.3.2.13; transglutaminase 4; transglutaminase 4 (prostate)
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	TGM4
Function	Associated with the mammalian reproductive process. Catalyzes the cross-linking of proteins and the conjugation of polyamines to specific proteins in the seminal tract.
Tissue Location	Prostate.

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