



Rabbit Anti-Human prostate transglutaminase (TG4) polyclonal antibody (CABT-L6038)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Polyclonal antibody to human prostate transglutaminase (TG4)
Immunogen	Human prostate transglutaminase (full length protein with N-terminal hexahistidin-tag) recombinantly produced in E. coli.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Purified
Conjugate	Unconjugated
Applications	IA Optimal dilutions should be determined by the end user.
Format	Lyophilized.
Size	500 μg
Buffer	The antibody is lyophilized from 170 μL 0.02 M Tris-HCl buffer pH 8.0, 0.028 M NaCl, 2 mg/mL human serum albumin, azide free.
Preservative	None
Storage	Stable for a minimum of 2 years at –20°C as lyophilized powder Delivery is possible at ambient temperature
Ship	Wet ice

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BACKGROUND

Introduction	Tissue transglutaminase is a, Ca2+-dependent enzyme (78 kDa) composed by 4 domains: Beta Sheet Domain (fibronectin binding, ~17 kDa), catalytic Core Domain (Cys-His-Asp catalytic triad, Calcium-binding, GTP/GDP-binding, ~37 kDa), Beta Barrel 1 Domain (GTP/GDP-binding, ~14 kDa) and Beta Barrel 2 Domain (~12 kDa). The inactive GTP-bound enzyme is present in a closed conformation, which upon activation by Ca2+ and substrate binding opens like a pocket knife resulting in a longitudinal open conformation
Keywords	Tissue transglutaminase; TG1; TG2; TG3; TG4; TG5; TG6; TG7; keratinocyte transglutaminase; tissue transglutaminase; epidermal transglutaminase; prostate transglutaminase; neuronal transglutaminase