



## Rabbit Anti-Human transglutaminase 5 (TG5) polyclonal antibody (CABT-L6039)

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

## PRODUCT INFORMATION

Specificity         Human Transglutaminase 6           Immunogen         Human transglutaminase 5 (full length protein with N-terminal hexahistidin-tag, denaturated in urea) 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 200 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	Product Overview	Polyclonal antibody to human transglutaminase 5 (TG5)
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 200 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	Specificity	Human Transglutaminase 6
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 200 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	Immunogen	
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 200 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	Isotype	IgG
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 200 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	Source/Host	Rabbit
Conjugate       Unconjugated         Applications       IA Optimal dilutions should be determined by the end user.         Format       Lyophilized.         Size       500 μg         Buffer       The antibody is lyophilized from 200 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	Species Reactivity	Human
Applications       IA Optimal dilutions should be determined by the end user.         Format       Lyophilized.         Size       500 μg         Buffer       The antibody is lyophilized from 200 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	Purification	Purified
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human serum albumin, azide free.  Preservative  None  Storage  Stable for a minimum of 2 years at -20°C as lyophilized powder	Size	500 μg
Storage Stable for a minimum of 2 years at -20°C as lyophilized powder	Buffer	
	Preservative	None
	Storage	

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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