



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

Product Overview	Polyclonal antibody to human transglutaminase 5 (TG5)
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

BACKGROUND

Introduction

Tissue transglutaminase is a, Ca^{2+} -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 Ca^{2+} 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
