



# Rabbit Anti-Human transglutaminase 7 (TG7) polyclonal antibody (CABT-L6044)

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

## PRODUCT INFORMATION

<b>Product Overview</b>	Polyclonal antibody to human transglutaminase 7 (TG7)
<b>Specificity</b>	Human Transglutaminase 7
<b>Immunogen</b>	Human neuronal transglutaminase (full-length protein with N-terminal hexahistidin-tag) recombinantly produced in insect cells.
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human
<b>Purification</b>	Protein A chromatography
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	IA Optimal dilutions should be determined by the end user.
<b>Format</b>	Lyophilized.
<b>Size</b>	200 µg
<b>Buffer</b>	The antibody is lyophilized from 250 µL 10 mM sodium phosphate buffer pH 8.1, 150 mM NaCl, 2 mg/mL human serum albumin, azide free.
<b>Preservative</b>	None
<b>Storage</b>	Store at -80°C. If storage at -80°C is not possible, storage at ≤ -20°C is recommended. Stable for short

term at +4°C.

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**Ship**

Wet ice

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## BACKGROUND

### Introduction

Tissue transglutaminase is a,  $\text{Ca}^{2+}$ -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  $\text{Ca}^{2+}$  and substrate binding opens like a pocket knife resulting in a longitudinal open conformation

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### Keywords

Tissue transglutaminase; TG1; TG2; TG3; TG4; TG5; TG6; TG7; keratinocyte transglutaminase; tissue transglutaminase; epidermal transglutaminase; prostate transglutaminase; neuronal transglutaminase

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