



Rabbit Anti-Human keratinocyte TG1 (transglutaminase) polyclonal antibody [FITC] (CABT-L6028)

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

PRODUCT INFORMATION

Product Overview	FITC-labeled polyclonal antibody to human keratinocyte transglutaminase (TG1)
Specificity	Specificity of this antibody was determined with different human TG1, human TG2, human TG3, human TG6, human TG7, human FXIII and guinea pig transglutaminase (gpTG). This antibody has no cross reactivity to other transglutaminases tested.
Immunogen	Human keratinocyte transglutaminase (full length protein with N-terminal hexahistidin-tag) recombinantly produced in insect cells.
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human
Purification	Purified
Conjugate	FITC
Applications	IA, FC. Each laboratory should determine an optimum working titer for use in its particular application. Other applications have not been tested but use in such assays should not necessarily be excluded.
Format	Lyophilized.
Size	200 µg
Buffer	The antibody is lyophilized from 200 µL PBS, 2 mg/mL human serum albumin.

Preservative	None
Storage	Stable for a minimum of 2 years at –20°C as lyophilized powder.
Ship	Wet ice

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