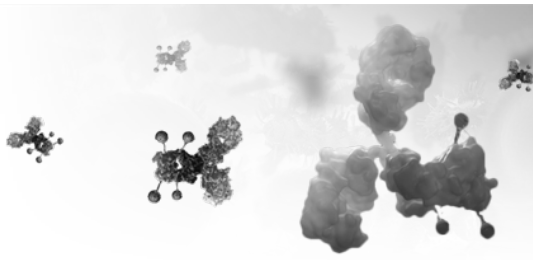

Rabbit Anti-Human tissue transglutaminase (TG2) polyclonal antibody (CABT-L6031)

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

PRODUCT INFORMATION

Product Overview	Polyclonal antibody to human tissue transglutaminase (TG2)
Specificity	Specificity of this clone was determined with human transglutaminases (TG1–TG7, FXIII) and TG2 of different species. This item has no cross reactivity to TG1, TG6 and TG7 and very slight cross reactivity to TG3, TG4, TG5 and FXIII. This clone also recognizes dog TG2, although at a lower signal intetnsity.
Immunogen	Human tissue 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	Unconjugated
Applications	WB, IF, IHC. 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.
Epitope	This clone recognizes the epitopes YLDSE, DNNYGDGVSP, NEFGEIQG, QPGYEG, QALDPTPQEK, DITHT, PEGSSEEREAFT, FAHITNNTAEE, LTEEQ, EIPDPVEAG
Format	Lyophilized.

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Size	500 µg
Buffer	The antibody is lyophilized from 155 µL 0.05 M Na-Phosphate buffer pH 8, 0.075 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

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

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