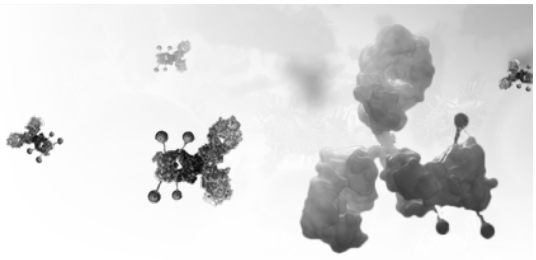

Mouse Anti-Human TG2 (Catalytic Domain) monoclonal antibody, clone YUH28 (CABT-L6032)

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

PRODUCT INFORMATION

Product Overview	Monoclonal antibody to human TG2 (Catalytic Domain)
Specificity	Specificity of this item was determined in WB with human transglutaminases (TG1–TG7, FXIII), TG2 of different species and human TG2 domains recombinantly produced in E. coli. This clone is specific for the catalytic Core Domain of TG2. It does not cross-react with other domains of human TG2. It does not cross-react with other human transglutaminases. This antibody recognizes human, guinea pig, rat, mouse and to a weak extend dog TG2.
Immunogen	Human tissue transglutaminase (full length protein with N-terminal hexahistidin-tag) recombinantly produced in insect cells
Isotype	IgG2a
Source/Host	Mouse
Species Reactivity	Human, Guinea pig, Rat, Mouse, Dog
Clone	YUH28
Purification	Protein G Purified.
Conjugate	Unconjugated
Applications	WB, IF. 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.

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Epitope	This clone recognizes the epitope DITHTYKYPE
Format	Liquid, Purified
Concentration	Lot specific
Size	200 µg
Buffer	75 mM NaCl, 5 mM Tris, pH7.5, 0.025% sodium azide, 50% glycerol.
Preservative	0.025% sodium azide
Storage	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.
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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