



Rabbit Anti-bacterial transglutaminase (BTG/MTG) polyclonal antibody (CABT-CS190)

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

PRODUCT INFORMATION

Product Overview	Polyclonal antibody to bacterial transglutaminase (BTG, MTG)
Specificity	Antibody reacts specifically with microbial (bacterial) transglutaminase and Protransglutaminase from <i>Streptomyces mobaraensis</i> in native or denatured form.
Immunogen	Microbial (bacterial) transglutaminase (full length protein) from <i>Streptomyces mobaraensis</i> recombinantly produced in <i>E. coli</i>
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	<i>Streptomyces mobaraensis</i>
Purification	Protein A chromatography
Conjugate	Unconjugated
Applications	WB, ELISA. 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 pH 7.2, 2 mg/mL human serum albumin, azide free.
Preservative	None

Storage	Store at -80°C. If storage at -80°C is not possible, storage at $\leq -20^{\circ}\text{C}$ is recommended. Stable for short term at +4°C.
Ship	Wet ice

BACKGROUND

Introduction	<p>Microbial transglutaminase (MTG or synonymous BTG for bacterial transglutaminase) was discovered in the late 1980ies by screening 5,000 microorganisms. The aim was the constant supply of a cheap and stable transglutaminase for food applications. The microorganism <i>Streptomyces mobaraensis</i> (formerly known as <i>Streptovercillium mobaraense</i>) turned out to produce a calcium independent transglutaminase with the desired properties.</p> <p>MTG is produced as an inactive proenzyme (zymogen) with a signal sequence for its secretion to the fermentation broth. Subsequently, proteolytic cleavage of the 45 amino acid propeptide with Proteases TAMP and TAP yields active MTG</p>
Keywords	Microbial transglutaminase; bacterial transglutaminase; transglutaminase; BTG; MTG; Microbial pro-transglutaminase; bacterial pro-transglutaminase