



Rabbit Anti-Mite Bla g 2 Polyclonal Antibody (CABT-YN1488)

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

PRODUCT INFORMATION

Specificity	The antiserum contains IgG antibodies to cockroach <i>Blattella germanica</i> allergen, Bla g 2 and does not react with Bla g 1.
Target	Mite Bla g 2
Immunogen	Recombinant Bla g 2
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	<i>Blattella germanica</i>
Purification	Affinity chromatography using recombinant Protein G.
Conjugate	Unconjugated
Applications	ELISA Recommended dilution: ELISA: 1:1000 Final working dilutions must be determined by end user.
Format	Liquid
Concentration	Lot specific
Size	100 µl
Buffer	Prepared in 1% BSA 50% glycerol/ PBS, pH 7.4, 0.22 µm filtered, preservative free.
Preservative	None

Storage	Store at 4°C
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Ship	Wet ice
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BACKGROUND

Introduction

Bla g 2 is one of the most potent cockroach allergens (prevalence of IgE responses of 60 to 80%) and shows homology to the aspartic proteinase family of enzymes.

German cockroaches produce several important allergens, including Bla g 1, Bla g 2, Bla g 4, and Bla g 5, that are secreted and accumulate in the environment. Previous studies have shown that Bla g 2 is a potent allergen that elicits IgE responses in 60 to 80% of cockroach allergic patients and gives positive immediate skin tests at concentrations as low as 10 –5–10–6 µg/ml. Recent epidemiological studies have shown that 10 to 100-fold lower levels of CR allergens elicit IgE responses when compared with other common indoor allergens, such as dust mite or cat.

Bla g 2 is a 36-kD protein that shows primary sequence homology to aspartic proteinases. The mechanism by which susceptible individuals produce IgE responses to allergens is not known, but an increasing body of evidence suggests that having functional enzyme activity may explain why some allergens, notably the cysteine and serine protease allergens from house dust mite (Der p 1, Der p 3, and Der p 9) and phospholipase A2 from bee venom, are particularly potent.

Keywords	Bla g2; Bla g 2; Blattella germanica
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GENE INFORMATION

Protein Refseq	None
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