



Mouse Anti-White Mustard Sin a 1 Monoclonal Antibody, clone 3G7 (CABT-YN1506)

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

PRODUCT INFORMATION

Specificity	Binds to an epitope on yellow mustard Sinapis alba allergen, Sin a 1.
Target	White Mustard Sin a 1
Immunogen	Sin a 1
Isotype	IgG1
Source/Host	Mouse
Species Reactivity	Sinapis alba
Clone	3G7
Purification	Produced in vitro and purified by affinity chromatography using Protein A.
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	Phosphate buffered saline, pH 7.4, preservative free.

Preservative	None
Storage	Store at 4°C
Ship	Wet ice

BACKGROUND

Introduction

Mustard has been an important cause of food allergy of increasing incidence in the last years. Sin a 1, a storage 2S albumin, is the most relevant allergen from this spice. Mustard is the most important spice crop available globally, that belongs to the family Brassicaceae. Mainly, three species of this family are used in food industry: white (*Sinapsis alba*), brown (*Brassica juncea*) or black (*Brassica nigra*) mustard. Mustard is widely used in Indian, French, German and Irish cuisines, as well as for medicinal purposes. This plant is native to Asia, especially China, but has now spread throughout Asia, Japan, Africa and Europe. The prevalence of mustard allergy is common in Europe, where the consumption is comparatively higher, particularly in France. Oral ingestion of mustard can lead to allergic reactions, such as oral allergy syndrome and anaphylaxis, allergic rhinitis, asthma and atopic dermatitis. Four of the proteins from white mustard, named, Sin a 1, Sin a 2, Sin a 3 and Sin a 4, and only one protein from brown mustard, Bra j 1, have been identified as having allergenic potential. Cross reactivity between mustard and mugwort pollens is widely reported as the mugwort-mustard allergy. Besides mugwort, it also shows cross reactivity with nuts, legumes, corn, peach (Rosaceae fruits), cabbage, cauliflower and broccoli (Brassicaceae vegetables).

Keywords	Sin a1; Sin a 1; <i>Sinapis alba</i>
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GENE INFORMATION

Protein Refseq	None
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