



Human Anti-Peanut Ara h 1 Monoclonal Antibody, clone 5H5 (CABT-L5114)

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

PRODUCT INFORMATION

Product Overview	Monoclonal antibody derived from a patient allergic to peanut.
Specificity	This clone targets <i>Arachis hypogaea</i> allergen.
Isotype	IgE
Source/Host	Human
Species Reactivity	N/A
Clone	5H5
Purification	Purified, Purity > 95 %
Conjugate	Unconjugated
Applications	IA
Preparation	Monoclonal antibody derived from a patient allergic to peanut.
Format	Liquid
Concentration	Lot specific
Size	200 µl
Buffer	In phosphate buffered saline, pH 7.4 and 0.05% Tween-20. 0.26µm filtered, preservative free.
Preservative	None
Storage	Maintain at -20°C for up to 12 months. Avoid repeated freeze-thaw cycles. Store product

undiluted.

Ship Wet ice

BACKGROUND

Introduction Ara h 1 is a seed storage protein from *Arachis hypogaea* (peanuts). It is a heat stable 7S vicilinlike globulin with a stable trimeric form that comprises 12-16% of the total protein in peanut extracts. Ara h 1 is known because sensitization to it was found in 95% of peanut-allergic patients from North America. In spite of this high percentage, peanut-allergic patients of European populations have fewer sensitizations to Ara h 1. Ara h 1 is a vicilin, located in the protein fraction of the peanut cotyledon. Ara h 1 forms homotrimers, and due to its highly stable structure, mediated through hydrophobic interactions, it has been established as an allergen.

Keywords *Arachis hypogaea*;Conglutin;2S protein 1;Seed storage protein SSP1;Seed storage protein SSP2;IgE-binding protein;Protease inhibitor;Seed storage;Allergen Ara h 1;Peanuts

GENE INFORMATION

UniProt ID [P43238](#)
