

## Datasheet for ABIN7506045

# Major Allergen Cor a 1 Protein





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Restrictions:

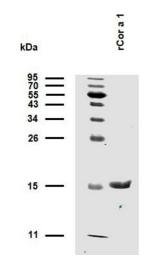
Quantity:	0.1 mg	
Target:	Major Allergen Cor a 1	
Origin:	Hazel	
Source:	Escherichia coli (E. coli)	
Protein Type:	Recombinant	
Application:	ELISA, Flow Cytometry (FACS), Western Blotting (WB)	
Product Details		
Purpose:	rCor a 1 (Corylus avellana 1.0401)	
Characteristics:	Recombinant protein rCor a 1 is expressed in Escherichia coli. DNA sequence encoding 174	
	AAs was fused with Strep-tag at the N-terminus. A calculated molecular mass of recombinant protein is 19,1 kDa.	
Purification:	Purified by sequential steps of ion exchange and affinity chromatography.	
Target Details		
Target:	Major Allergen Cor a 1	
UniProt:	Q9SWR4	
Application Details		
Application Notes:	Optimal working dilution should be determined by the investigator.	

For Research Use only

## Handling

Format:	Lyophilized	
Buffer:	Lyophilized from a 0.2 $\mu$ m filtered solution in Storage buffer (100 mM Tris, 150 mM NaCl, 0.01 % Tween 20, pH 8.0).	
Preservative:	Azide free	
Storage:	4 °C	
Storage Comment:	Store at -20°C to -80°C. Reconstitute in sterile deionized water. Use reconstituted product immediately or aliquot for further storage at -20°C to -80°C.	

## **Images**



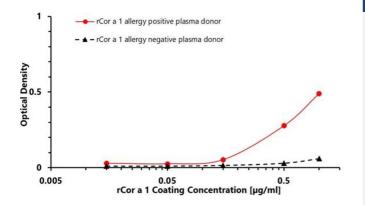
# 180 — 130 — 100 — 70 — 55 — 40 — 25 — — rCor a 1

## **Western Blotting**

Image 1. Analysis of presence of slgE antibodies specific to Cor a 1 (a common hazel antigen) in plasma of a patient with allergic reaction to common birch pollen (confirmed by routine clinical test). Western blotting analysis was performed on recombinant allergen rCor a 1 mixed and heated (100 °C, 5 min) with reducing SDS loading buffer. Sample was resolved using 15% Tris-glycine electrophoresis. Nitrocellulose membrane blot was incubated with plasma of an allergic patient (1:10). Captured rCor a 1 slgE antibodies were detected by biotinylated antihuman IgE secondary antibody (2 µg/mL) followed by IRDye 800CW Streptavidin (1:5000). The analysed patient plasma contained sIgE antibodies specific to Cor a 1.

### **SDS-PAGE**

**Image 2.** Recombinant allergen rCor a 1 purity verification. 5 μg of rCor a 1 with > 95 % purity checked by Coomassie Brilliant Blue stained SDS-PAGE.



## **ELISA**

Image 3. ELISA (enzyme-linked immunosorbent assay) test was designed to prove the bond between the coated target recombinant allergen rCor a 1 and allergen-specific human plasma IgG4 antibodies of Corylus avellana positive donor. A measurable signal was subsequently generated by the addition of biotin labeled anti-human IgG4 (detection) antibody, Streptavidin-HRP and substrate solution (TMB). The intensity of the signal is proportional to the amount of coated rCor a 1.

Please check the product details page for more images. Overall 5 images are available for ABIN7506045.