Datasheet for ABIN7506052

Major Allergen Mal D 1 Protein (LOC100812065)

3 Images

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Overview

Quantity:	0.1 mg
Target:	Major Allergen Mal D 1 (LOC100812065)
Origin:	Apple
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Application:	ELISA, Flow Cytometry (FACS)

Product Details

Purpose:	rMal d 1 (Malus domestica 1.0101)
Characteristics:	Recombinant protein rMal d 1 is expressed in Escherichia coli. DNA sequence encoding 180 AAs was fused with Strep-tag at the N-terminus. A calculated molecular mass of recombinant protein is 19,9 kDa.
Purification:	Purified by sequential steps of ion exchange and affinity chromatography.

Target Details

Target:	Major Allergen Mal D 1 (LOC100812065)
Alternative Name:	Major allergen Mal d 1 (LOC100812065 Products)
UniProt:	P43211

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.

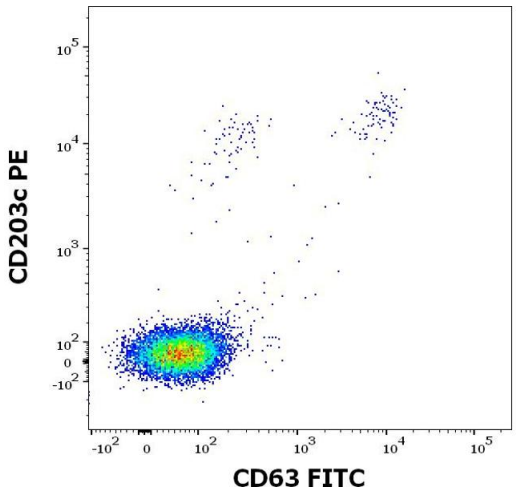
Application Details

Restrictions:	For Research Use only

Handling

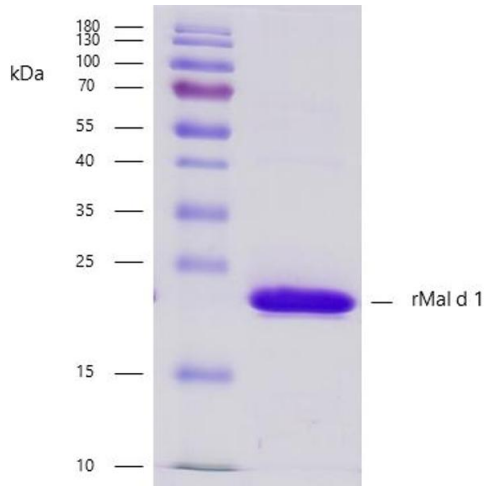
Format:	Lyophilized
Buffer:	Lyophilized from a 0.2 µm filtered solution in Storage buffer (100 mM Tris, 150 mM NaCl, 0.01 % Tween 20, pH 8.0).
Preservative:	Azide free
Storage:	4 °C
Storage Comment:	Store at -20°C to -80°C. Reconstitute in sterile deionized water. Use reconstituted product immediately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

Images



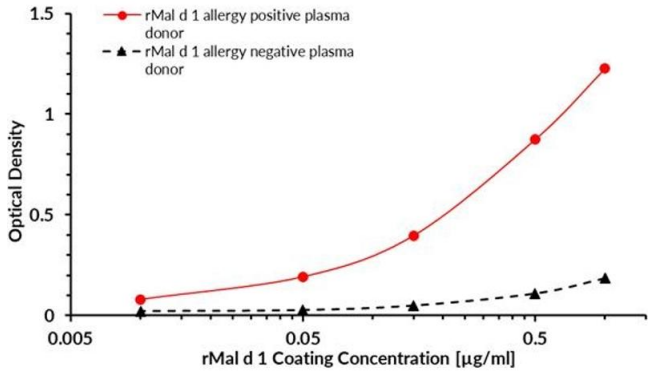
Flow Cytometry

Image 1. Flow cytometry dot-plot staining pattern of rMal d 1 recombinant allergen stimulated human peripheral whole blood lymphocytes and basophils of a proven allergic donor stained using anti-human CD63 (MEM-259) FITC and anti-human CD203c (NP4D6) PE antibodies .



SDS-PAGE

Image 2. Recombinant allergen rMal d 1 purity verification. 5 µg of rMal d 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 rMal d 1 and allergen-specific human plasma IgG4 antibodies of Malus domestica 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 rMal d 1.