References:

- 1. Gill SC, von Hippel PH. Anal Biochem 1989 Nov 1;182(2):319- 26.
- Vailes L, Sridhara S, Cromwell O, Weber B, Breitenbach M, Chapman M. J Allergy Clin Immunol 2001 Apr;107(4):641-6



Alt a 1 ELISA kit (121/121)

For Alternaria Allergen Detection

Product Code: EL-AA1

Lot: xxxxx

Sample Curve:





www.inbio.com

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Content:

- Vial 1 Vial 1 (red top) 0.1ml Monoclonal antibody 121 Concentration: 2mg/ml in PBS
- Vial 2 Vial 2 (white top) 400 µl rAlt a 1 Standard Concentration: 1000ng/ml
- Vial 3 Vial 3 (brown) 100 µl Biotinylated monoclonal antibody 121 Dilute: 1:1000 for use

Storage: All reagents should be stored at 4°C

Certificate of Analysis

Monoclonal Antibody: Immunogen: Isotype: Specificity: Purification:	121 (clone 121 G5 G8) Alt a 1 Mouse IgG2A Binds to a species specific epitope on Alternaria altanata allergen, Alt a 1. From ascites by ammonium sulphate precipitation
Concentration:	and by HPLC using recombinant protein G. Single heavy and light chain bands on SDS-PAGE 2 mg/ml in phosphate buffered saline, pH 7.2. Based on A280 for IgG (1.42= 1mg/ml) 0.22µm filtered, preservative free.
Lot Number:	XXXXX
Managlanal Antibada	121 (clone 121 CE C9)
Ininianogen. Isotype:	
Specificity:	Rinds to a species specific, epitope on Alternaria
opcomony.	altanata allergen. Alt a 1
Purification:	From ascites by ammonium sulphate precipitation and by HPLC using recombinant protein G. Single heavy and light chain bands on SDS-PAGE
Biotinylation:	Biotinylated using EZ-Link Sulfo-NHS-LC Biotinylat- ing Agent and titrated for use in ELISA for Alt a 1 allergen at 1/1000 dilution. Prepared in 1% BSA/50% glycerol/PBS, pH 7.4, 0.22µm filtered,
Lot Number:	xxxxx
Allergen Standard:	rAlta 1
Composition:	Recombinant Alt a 1 prepared in 1% BSA/50% glycerol/PBS. 0.22µm filtered, preservative free, pH 7.4
Concentration:	1000ng/ml Alt a 1
Calibration:	The rAlt a 1 was from E. coli and purified by conventional biochemical methods. The mol.ext.coeff was calculated from the DNA-derived protein sequence, as described by Gill et.al (1).
Lot Number	XXXXX

ELISA protocol for Alt a 1 allergen.

- Anti Alt a 1 mAb 121 is supplied HPLC purified and as a stock solution in PBS (Code MA-121). Dilute the mAb 121 1/1000 (i.e. 10ul/10ml) in 50mM carbonate-bicarbonate buffer, pH 9.6. Coat polyslyrene microtiter wells (NUNC Maxisorp Cert. NUNC catalog #439454, Fisher Catalog #12565135) with 100 ul of the diluted mAb 121 per well. Incubate overnight 4EC.
- Wash wells 3x with PBS-0.05% Tween 20, pH 7.4 (PBS-T). Incubate for 30 min. at room temperature with 100µl 1% BSA PBS-T. Wash 3x with PBS-T.
- 3. Add 100µl of diluted allergen standard, house dust or air filter samples. Incubate for 1 hour at room temperature.
 - 3a. Make a Alt a 1 control curve using doubling dilutions of the allergen standard (Product Code: ST-AA1): The control curve dilutions are from 100-0.2ng/ml Alt a 1. Pipette 20µl Alt a 1 standard into 180µl 1% BSA PBS-T into wells A1 and B1 of the ELISA plate. Mix well and transfer 100µl across the plate into 100µl 1% BSA PBS-T diluent to make 10 serial doubling dilutions. Wells A11, B11, A12 and B12 should contain only 1% BSA PBS-T as blanks.
 - 3b. House dust samples are routinely diluted two-fold from 1/10-1/80.
- Wash wells 3x with PBS-T and add 100µl diluted biotinylated anti-Alt a 1 mAb 121 (Product Code: BI-121). The antibody solution contains 50% glycerol and should be diluted 1/1000 (i.e. 10µl/10ml) in 1% BSA-PBS-T. Incubate for 1 hour at room temperature.
- Wash wells 3x with PBS-T and add 100µl diluted Streptavidin-Peroxidase (Sigma S5512, 0.25mg reconstituted in 1 ml distilled water). The reconstituted Streptavidin should be diluted 1/1000 (i.e. 10µl/10ml) in 1%BSA-PBS-T. Incubate for30 minutes at room temperature.

Notes: Buffer recipes, storage conditions and a list of frequently asked questions can be found under "Protocols" on our web site: www.inbio.com.

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