### References:

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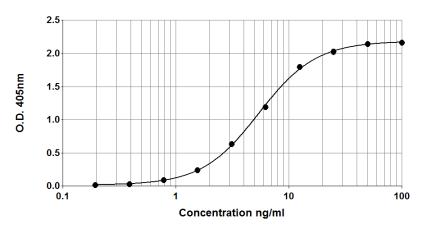
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# Mite Group 2 ELISA kit (1D8/7A1)

**Product Code: EL-D2** Lot Number: xxxxx

## Sample Curve:



#### Content:

Vial 1 (red top) 100 µL

Monoclonal antibody 1D8

Concentration: 1.35mg/ml in PBS

Vial 2 (white top) 400 µL

Universal Allergen Standard Concentration: 1000ng/ml Der p 2

Vial 3 (brown) 100 uL

Biotinylated monoclonal antibody 7A1

Dilute: 1:1000 for use

Storage: The ELISA kit should be stored at 4°C

Indoor Biotechnologies Ltd.

## **Certificate of Analysis**

Monoclonal Antibody: 1D8 (clone 1D8 C4 D8)

Immunogen: Der p 2
Isotype: Mouse IgG2A

Specificity: Binds to an epitope on dust mite *Dermatophagoides* 

Group 2 allergens, Der p 2 and Der f 2.

Purification: Produced in ascites and purified by ammonium sulphate

precipitation and affinity chromatography using Protein A.

Single heavy and light chain bands on SDS-PAGE.

Concentration: 1.35 mg/ml in phosphate buffered saline, pH 7.4

Based on A280 for IgG (1.42=1mg/ml), 0.22µm filtered,

preservative free.

Lot Number: xxxxx

Monoclonal Antibody: Biotin 7A1 (clone 7A1 H1 G3)

Immunogen: Der f 2 Isotype: Mouse IgG1

Specificity: Binds to an epitope on dust mite *Dermatophagoides* 

Group 2 allergens, Der p 2 and Der f 2.

Purification: Produced in ascites and purified by affinity

chromatography using Protein A. Single heavy and light

chain bands on SDS-PAGE.

Biotinylation: Biotinylated and titrated for use in ELISA at 1/1000

dilution. Prepared in 1% BSA/50% glycerol/PBS, pH 7.4,

0.22µm filtered, preservative free.

Lot Number: xxxxx

Allergen Standard: Universal Allergen Standard

Composition: A formulation of eight purified natural allergens prepared

in 1% BSA/50% glycerol/PBS, pH 7.4

Lot Number: xxxxx

Concentration:

Universal Allergen Standard	Protein Measurement	Concentration (ng/ml)
Der p 1	Amino-acid analysis	2500
Der f 1	Amino-acid analysis	2500
Der p 2	Amino-acid analysis	1000
Fel d 1	Amino-acid analysis	1000
Can f 1	Amino-acid analysis	2500
Rat n 1	Amino-acid analysis	1000
Mus m 1	Amino-acid analysis	250
Bla g 2	Amino-acid analysis	2500

## **ELISA Protocol for Mite Group 2 Allergens.**

- Coat polystyrene microtiter plates (NUNC Maxisorp Cert. NUNC catalog # 439454) with 100μl mAb 1D8 at 10μl/10ml, i.e. 1/1000 dilution of stock, in 50mM carbonate-bicarbonate buffer, pH 9.6, incubate overnight at 4°C.
- Wash wells 3x with PBS-0.05% Tween 20, pH 7.4 (PBS-T). Incubate for 30 min. at room temperature with 100μl/well of 1% BSA, PBS-T. Wash 3x with PBS-T.
- 3. Use doubling dilutions of the Universal Allergen Standard to make a control curve ranging from 100 0.2ng/ml Der p 2: Pipette 20µl Universal Allergen Standard into 180µl 1% BSA, PBS-T into wells A1 and B1 on 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 and A12, B12 should contain only 1% BSA, PBS-T as blanks.
- Add 100µl of diluted allergen samples and incubate for 1 hour at room temperature. House dust extracts for Der p 2 analysis are routinely diluted two-fold from1/10-1/80. Other sample types, like air filter extracts and allergen extracts, may require different dilutions.
- 5. Wash wells 3x with PBS-T and add 100µl diluted biotinylated anti mAb 7A1. The antibody solution contains 50% glycerol and should be diluted 1/1000 in 1%BSA, PBS-T. Incubate for 1 hour at room temperature.
- 6. Wash wells 3x and add 100µl diluted Streptavidin Peroxidase (Sigma S5512, 0.25mg reconstituted in 1ml distilled water). The Streptavidin Peroxidase should be diluted 1/1000 in 1% BSA, PBS-T. Incubate for 30 minutes at room temperature.
- 7. Wash wells 3x and develop the assays by adding 100µl 1mM ABTS in 70mM citrate phosphate buffer, pH 4.2 and 1/1000 dilution of H<sub>2</sub>O<sub>2</sub>. Read the plate when the absorbance at 405nm reaches 2.0-2.4.

#### Notes:

Universal Allergen Standard is recommended for immunoassay calibration purposes only. Not recommended for in-vitro antibody measurements, T cell studies, immunization purposes, or other uses.

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

For research and commercial use in vitro: not for human in vivo or therapeutic use.