

References:

1. Müller WD, Diener C, Jung K, Jäger L. Antigens of Timothy and other grass pollen extracts identified by monoclonal antibodies. *Allergol Immunopathol (Madr)*. 1988 Sep-Oct;16(5):315-20.
2. Fahlbusch B, Müller WD, Diener CH, Jäger L. Detection of crossreactive determinants in grass pollen extracts using monoclonal antibodies against group IV and group V allergens. *Clin Exp Allergy*. 1993 Jan;23(1):51-60.
3. Petersen A, Becker WM, Schlaak M. Epitope analysis of isoforms of the major allergen Phl p V by fingerprinting and microsequencing. *Clin Exp Allergy*. 1994 Mar;24(3):250-6.

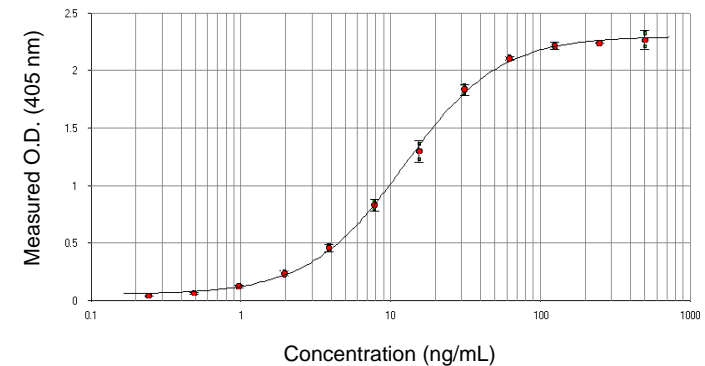


Phl p 5 ELISA kit (1D11/Bo1)

Product Code: EL-PP5

Lot Number: xxxxx

Sample Curve:



www.inbio.com

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Content:

- Vial 1 (red top) 100 μ L
Monoclonal antibody 1D11
Concentration: 2mg/ml in PBS
- Vial 2 (white top) 400 μ L
Phl p 5 Standard
Concentration: 5000ng/ml rPhl p 5a
- Vial 3 (brown) 100 μ L
Biotinylated monoclonal antibody Bo1
Dilute: 1:1000 for use

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

Certificate of Analysis

Monoclonal Antibody: 1D11 (clone 1D11 C8)
Product Code: MA-1D11
Immunogen: Timothy pollen extract
Isotype: Mouse IgG1
Specificity: Binds to species specific epitope present on Timothy Grass Pollen Allergen , Phl p 5a & b.
Purification: Produced in tissue culture and purified by chromatography using Protein A.
Concentration: Single heavy and light chain bands on SDS-PAGE.
2.0 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: Bo 1
Product Code: BI-BO1
Immunogen: Crude timothy pollen extract
Isotype: Mouse IgG1
Specificity: Binds to species specific epitope present on Timothy Grass Pollen Allergen , Phl p 5a & b.
Purification: Produced in tissue culture and purified by chromatography using Protein A.
Biotinylation: Single heavy and light chain bands on SDS-PAGE.
Biotinylated using EZ-Link Sulfo-NHS-LC Biotinylating Agent and titrated for use in ELISA for Phl p 5 allergen at 1/1000 dilution. Prepared in 1% BSA/50% glycerol/PBS, 0.22µm filtered, preservative free.
Lot Number: xxxxx

Allergen Standard: Phl p 5 Standard
Product Code: ST-PP5
Composition: Recombinant Phl p 5a prepared in 1% BSA/50% glycerol/ PBS. 0.22µm filtered, preservative free, pH 7.4
Concentration: 5000ng/ml rPhl p 5a
Calibration: The rPhl p 5a 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 Genbank acc. No. AJ555152.
Lot Number: xxxxx

ELISA Protocol for Phl p 5.

1. Anti Phl p 5 mAb 1D11 is supplied HPLC purified as a stock solution at 2mg/ml in PBS. Coat polystyrene microtiter wells (NUNC Maxisorp Cert. NUNC catalog # 439454, Fisher Catalog #12565135) with 10µl/10ml of mAb 1D11 in 50mM carbonate-bicarbonate buffer, pH 9.6. Incubate over night at 4°C.
2. Wash wells 3x with PBS-0.05% Tween 20, pH 7.4 (PBS-T). Incubate for 30 min. at room temperature with 0.1ml 1% BSA PBS-T. Wash 3x with PBS-T.
3. Use doubling dilutions of the Phl p 5 standard to make a control curve. The control curve dilutions are from 500 - 1ng/ml Phl p 5. Pipette 20µl Phl p 5 standard into 180µl 1% BSA PBS-T into rows 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. Rows 11 and 12 should contain only 1% BSA PBS-T as blanks.
4. Add 100µl of diluted allergen samples to other rows on the plate and incubate for 1 hour at room temperature. House dust samples are routinely diluted two-fold from 1/10-1/80.
5. Wash wells 3x with PBS-T and add 0.1ml diluted biotinylated anti Phl p 5 mAb Bo 1. The antibody solution contains 50% glycerol and should be diluted 1/1000 in 1%BSA PBS-T. Incubate for 1 hour at room temperature. Wash wells 3x and add 100µl diluted Streptavidin - Peroxidase (Sigma S5512, 0.25mg reconstituted in 1ml distilled water). The Streptavidin should be diluted 1/1000 in 1% BSA PBS-T. Incubate for 30 minutes at room temperature.
6. Wash wells 3x and develop the assays by adding 0.1ml 1mM ABTS in 70mM citrate phosphate buffer, pH 4.2 containing a 1/1000 dilution of H₂O₂ (i.e. 1:L of 30% H₂O₂ solution per ml ABTS). Read the plate when the optical density at 405nm reaches 2.0- 2.4.

Notes:

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