

This product is for research use only (not for diagnostic or therapeutic use)

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### Product no AS16 3973

# PDF1 | Plant defensin 1.1

### **Product information**

Immunogen KLH-conjugated synthetic peptide derived from Arabidopsis thaliana PDF1.1 UniProt: P30224-1, TAIR: At1q75830

> The peptide sequence, it is perfectly conserved in following Arabidopsis thaliana isoforms: PDF1.2c, PDF1.2b, PDF1.2A, PDF1.3. PDF2 isoform sequence did not come in the blast.

**Host** Rabbit

Clonality Polyclonal

**Purity** Affinity purified serum in PBS pH 7.4

Format Lyophilized

Quantity 50 μg

**Reconstitution** For reconstitution add 50 μl, of sterile water.

Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.

## **Application information**

Recommended dilution 1:1000 (WB)

Expected | apparent 8.7 kDa

Confirmed reactivity | Arabidopsis thaliana, Solanim lycopersicum

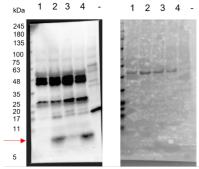
Predicted reactivity Arabidopsis thaliana, Brassica rapa, Camelina sativa, Eutrema salsugineum, Capsella rubella, Sorghum sp.

Species of your interest not listed? Contact us

Not reactive in Nicotiana benthamiana, Solanum tuberosum

Selected references Nikoloudakis et al. (2020). Structural Diversity and Highly Specific Host-Pathogen Transcriptional Regulation of Defensin Genes Is Revealed in Tomato. Int J Mol Sci. 2020 Dec 9;21(24):9380. doi: 10.3390/ijms21249380. PMID:

33317090; PMCID: PMC7764197.



#### Samples:

Marker used is Prestained Protein SHARPMASS™ VI Protein MW marker (5-245 kDa) from Euroclone company

sample 1:, 40 µg of Arabidopsis thaliana total protein from wildtype leaves 0 hour post infection with Botrytis cinerea (negative control);

sample 2: 40 µg of Arabidopsis thaliana total protein from mutant leaves (with induced expression of PDF1 mRNA) 0 hour post infection with Botrytis cinerea (positive control);

sample 4: 40 µg of Arabidopsis thaliana total protein from mutant leaves (with induced expression of PDF1 mRNA) leaves 24 hours post infection with Botrylis cinerea (positive control);

samples "-", 10 µg of Arabidopsis thaliana total protein wild type seedlings grown in dark condition (Negative control)



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Up to 40 μg/well of total protein extracted freshly from 6-week-old leaves of *Arabidopsis thaliana* with extraction buffer (125 mm Tris, pH 6.8, 4% [w/v] SDS, 20% [v/v] glycerol, 0.02% [w/v] bromophenol blue, 10% [v/v] -mercaptoethanol) and denatured 95°C for 7 minutes were separated on a 4–20% Mini-PROTEAN® TGX<sup>TM</sup> Precast Protein Gels (biorad) SDS-PAGE and blotted 1h to PVDF (pore size of 0.2 μm), using Trans-Blot Turbo Transfer System (Bio-Rad). Blot was blocked with 5% milk for 1h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1 000 for overnight (~16hours) with agitation in PBS-T with agitation at +4 °C. The antibody solution was decanted and the blot was rinsed briefly twice, then washed once for 15 min and 3 times for 5 min in PBS-T at RT with agitation. Blot was incubated in Agrisera matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:10 000 for 2h/RT with agitation. The blot was washed as above and developed for 3 min with Agrisera ECL SuperBright with ChemiDoc Imaging Systems (Bio-Rad). Exposure time was 10 seconds. Left membrane: Western blot detection. Right membrane: staining.

Courtesy Dr. Ricardo Lorrani, University of Rome Sapienza, Italy