

Agrisera

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

contact: support@agrisera.com

Agrisera AB | Box 57 | SE-91121 Vännäs | Sweden | +46 (0)935 33 000 | www.agrisera.com

product **AS12 2366**

PR-2 | Pathogenesis-related protein 2

product information

Background | **PR-2 (Pathogenesis-related protein 2)** is involved in the defence of plants against pathogens. This protein has a catalytic activity and is hydrolysing of (1->3)-beta-D-glucosidic linkages in (1->3)-beta-D-glucans, EC=3.2.1.39. Alternative names: Glucan endo-1,3-beta-glucosidase, acidic isoform, (1->3)-beta-glucan endohydrolase, Beta-1,3-endoglucanase, Beta-1,3-glucanase 2

Immunogen | KLH-conjugated synthetic peptide derived from *Arabidopsis thaliana* PR-2 UniProt [P33157](#), TAIR [AT3G57260](#)

Host | Rabbit

Clonality | Polyclonal

Purity | Serum

Format | Lyophilized

Quantity | 50 µl

Reconstitution | For reconstitution add 50 µl of sterile water.

Storage | 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.

Tested applications | Western blot (WB)

Related products | [AS10 687](#) | Anti-PR-1 | Pathogenesis-related protein 1, rabbit antibodies

[AS07 208](#) | Anti-PR-2 | GLU I | class I beta-1,3-glucanase, rabbit antibodies for other species, not *Arabidopsis thaliana*

[AS07 207](#) | Anti-PR-3 | CHN | class I chitinase, rabbit antibodies

[AS12 2369](#) | Anti-PR-4 | Pathogenesis-related protein 4, rabbit antibodies

[AS12 2373](#) | PR-5 | Pathogenesis-related protein 5, rabbit antibodies

[collection of antibodies to other proteins involved in a response to pathogen attack](#)
[Plant protein extraction buffer](#)

[Secondary antibodies](#)

Additional information | This product can be sold containing Proclin if requested

Application information

Recommended dilution | 1 : 1000 (WB)

Expected | apparent MW | 37.3 kDa (processing aa 1-30, mature peptide 34.1 kD)

Confirmed reactivity | *Agostis stolonifera* cv. 'Penncross', *Arabidopsis thaliana*, *Glycine max* (roots)

Predicted reactivity | *Brassica juncea*, *Brassica oleracea*, *Citrus chinensis*, *Glycine max*, *Litchi chinensis*, *Manihot esculenta*, *Nicotiana tabacum*

Not reactive in | No confirmed exceptions from predicted reactivity are currently known.

Additional information | Does not cross-react with other 1,3-beta glucosidases.

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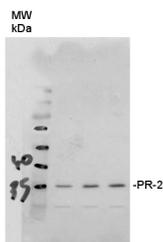
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Selected references

- [Lv et al. \(2019\)](#). Uncoupled Expression of Nuclear and Plastid Photosynthesis-Associated Genes Contributes to Cell Death in a Lesion Mimic Mutant. *Plant Cell*. 2019 Jan;31(1):210-230. doi: 10.1105/tpc.18.00813.
- [Jespersen et al. \(2017\)](#). Metabolic Effects of Acibenzolar-S-Methyl for Improving Heat or Drought Stress in Creeping Bentgrass. *Front Plant Sci*. 2017 Jul 11;8:1224. doi: 10.3389/fpls.2017.01224. eCollection 2017. (western blot, *Agostis stolonifera* cv. 'Penncross')
- [Kim et al. \(2014\)](#). The Arabidopsis Immune Adaptor SRFR1 Interacts with TCP Transcription Factors that Redundantly Contribute to Effector-Triggered Immunity. *Plant J*. 2014 Apr 1. doi: 10.1111/tpj.12527.

Application example



10 µg of total protein from *Arabidopsis thaliana* mature leaves were extracted with 8M UREA and were separated on 12 % SDS-PAGE and blotted 1h to PVDF. Blots were blocked with 5% Milk in TBS-T 0,05% for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1 000 for 1h at RT with agitation. 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 TBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, from Agrisera [AS09_602](#)) diluted to 1:10 000 in TBS-T/Milk 5% for 1h at RT with agitation. The blot was washed as above and developed for 5 min with ECL according to the manufacturers instructions. Exposure time was seconds 60 seconds.

Courtesy of Louis-Valentin Meteignier, PhD student, University of Sherbrooke, Canada