

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

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Product no AS07 207

PR-3 / CHN | Class I chitinase

Product information

Immunogen

Purified tobacco class I chitinase. The preparation used is a mixture of two class I isoforms (Shinshi et al., 1990; van Buuren et al., 1992): 1) Chitinase A (CHN A) P08252 encoded by gene chn48 derived from the N. tomentosiformis ancestor of tobacco. 2) Chitinase B (CHN B) P24091 encoded by gene chn50 derived from the N. sylvestris ancestor of tobacco.

Host Rabbit

Clonality Polyclonal

Purity Total IgG. Protein G purified in PBS pH 7.4.

Format Lyophilized

Quantity 2 mg

Reconstitution For reconstitution add 100 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 the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to

Additional information

Antibody is recognizing closely related tobacco class I isoforms: endochitinase A CHN-A (ca. 34 kDa) and endochitinase B CHN-B (ca. 32 kDa)

This antibody can be used as a marker of vacuolar contents Keefe et al. (1990). The effect of ethylene on the cell-type-specific and intracellular localization of -1,3-glucanase and chitinase in tobacco leave. Plant 182: 43-51.

Application information

Recommended dilution 8 μg/ml (WB)

Expected | apparent

35, 34 | 32 and 34 kDa

Confirmed reactivity

Agostis stolonifera cv. 'Penncross', Capsicum annuum, Nicotiana tabacum, Picea abies, Solanum esculentum, Solanum lycopersicum, Solanum tuberosum, Vitis vinifera

Predicted reactivity

Arabidopsis thaliana, Manihot esculenta, Zea mays

Species of your interest not listed? Contact us

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

Additional information

Important note: For blocking 5% skim milk in PBS without Ca++ should be used. This antibody is purified by affinity chromarography on Portein G.

Selected references

Mansilla et al. (2020).- Characterization of functionalized bentonite as nanocarrier of salicylic acid with protective action against Pseudomonas syringae in tomato plants. Eur J Plant Pathol 158, 211?222 (2020).

https://doi.org/10.1007/s10658-020-02067-w

Colman et al. (2019). Chitosan microparticles improve tomato seedling biomass and modulate hormonal, redox and defense pathways. Plant Physiology and Biochemistry Volume 143, October 2019, Pages 203-211.

Kumari et al. (2017), Overexpression of a Plasma Membrane Bound Na+/H+ Antiporter-Like Protein (SbNHXLP) Confers Salt Tolerance and Improves Fruit Yield in Tomato by Maintaining Ion Homeostasis. Front Plant Sci. 2017 Jan 6;7:2027. doi: 10.3389/fpls.2016.02027.

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?)

Ko et al. (2016). Constitutive expression of a fungus-inducible carboxylesterase improves disease resistance in transgenic pepper plants. Planta. 2016 Aug; 244(2):379-92. doi: 10.1007/s00425-016-2514-6. Epub 2016 Apr 13.

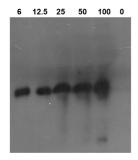


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Application example



Detection of tobacco chitinase I in ng loaded per respective well using anti-tobacco chitinase I antibodies. Primary antibodies have been used at 8 μ g/ml.