Agrisera

Antibodies for research

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

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product AS07 208 GLU I | PR-2 class I beta-1,3-glucanase

product information

background	Pathogenesis-related (PR) proteins, are induced in response to the infection of plants with microbial pathogens. Combinations of glucanase I and chitinase I are potent inhibitors of fungal growth in vitro however precise mechanism of that is still not known. Glucanase I (PR-2) and chitinase I (PR-3) contribute to defense against fungal infection and are currently used as markers for innate immunity, and in particular the ethylene/jasmonate signalling pathway in pathogenesis. Alternative names of the protein: The basic, vacuolar isoforms of tobacco glucan endo-1,3-Î ² -glucosidase; basic tobacco Î ² -1,3-glucanase; PR-2
immunogen	purified tobacco class I B-1,3-glucanase Q42944
antibody format	rabbit polyclonal affinity purified total IgG in PBS pH 7.4 (without Ca++) lyophilized
quantity	2 mg 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 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), immunolocalization (IL)
additional information	for more details on immunolocalization, please referr to Keefe et al (1990). Plant 182: 43-51

application information

recommended dilution	8 ug/ml with standard ECL (WB)
expected apparent MW	37 33 kDa
confirmed reactivity	Nicotiana tabacum, Populus sp.
predicted reactivity	dicots including: Glycine max, monocots including: Zea mays
not reactive in	Arabidopsis thaliana
additional information	Important note: for blocking 5 % skim milk in PBS without Ca++ should be used
selected references	Sticher,L., Hinz,U., Meyer,A.D., and Meins,F.Jr. (1992). Intracellular transport and processing of a tobacco vacuolar -1,3-glucanase. Planta 188, 559-565.
	Beffa et al. (1993). Physiological compensation in antisense transformants: Specific induction of an ersatz glucan endo-1,3glucosidase in plants infected

with necrotizing viruses. Proc. Natl. Acad. Sci. U. S. A 90, 8792-8796.

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