

# Agrisera

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

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## product **AS15 2889** **CHIT8 | Chitinase 8**

### product information

**Background** | **Chitinase 8** is involved in the hydrolysis of N-acetyl-beta-D-glucosaminide (1->4)-beta-linkages in chitin and chitodextrins. Alternative names: Chitinase 8, Class II chitinase a, OsChia2a, Pathogenesis related (PR)-3 chitinase 8.

**Immunogen** | KLH-conjugated synthetic peptide derived from *Oryza sativa* OsCht3 protein sequence, UniProt: [Q7XCK6](#), [CH18\\_ORYSJ](#)

**Host** | Rabbit

**Clonality** | Polyclonal

**Purity** | Serum

**Format** | Lyophilized

**Quantity** | 50 µl

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

**Storage** | The antibody may be stored at -20 °C for one year in its original formulation. Additionally, antibody may be stored at 2 to 8 °C for up to 1 month without detectable loss of activity. Avoid repeated freeze-thaw cycles of the diluted antibody.

Store at 4 °C; make aliquots to avoid working with a stock. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from liquid material adhering to the cap or sides of the tubes.

**Tested applications** | Western blot (WB)

**Related products** | [AS10 687](#) | PR-1 | Pathogenesis-related protein 1, rabbit antibodies  
[AS07 208](#) | PR-2 | GLU I | class I beta-1,3-glucanase, rabbit antibodies for other species, not *Arabidopsis thaliana*  
[AS12 2366](#) | PR-2 | pathogenesis-related protein 2, rabbit antibody for *Arabidopsis thaliana* PR-2 protein detection  
[AS07 207](#) | PR-3 | CHN | class I chitinase, rabbit antibodies  
[AS12 2369](#) | PR-4 | Pathogenesis-related protein 4, rabbit antibodies  
[AS12 2373](#) | PR-5 | Pathogenesis-related protein 5, rabbit antibodies  
[AS15 2888](#) | CHIT3 | Chitinase 3, rabbit antibodies

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

[Secondary antibodies](#)

### Application information

**Recommended dilution** | 1 : 1000 (WB)

**Expected | apparent MW** | 27.55 kDa

**Confirmed reactivity** | *Oryza sativa*

**Predicted reactivity** | *Hordeum vulgare*, *Triticum aestivum*

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

**Selected references** | to be added when available, antibody released in June 2015

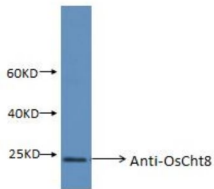
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## Application example:



Total protein from *Oryza sativa* rice (CV. 9311) flag leaf at the tillering stage was ground into a fine powder in liquid nitrogen. An 800  $\mu$ l aliquot of extraction buffer: 62.5 mM TRIS-HCl (pH 7.4), 10% glycerol, 0.1% SDS, 2 mM EDTA, 1 mM phenylmethylsulphonyl fluoride (PMSF), 5% (v/v) b-mercaptoethanol] was added to each 300 mg powder sample. The mixture was vortexed and then chilled on ice for 10 min. Samples were centrifuged at 12,000 rpm for 10 min. at 4  $^{\circ}$ C, and the supernatant was collected and stored at  $-70^{\circ}$  C. The protein concentrations of the rice samples were determined using the Bradford method (Bradford, 1976). 20  $\mu$ g of protein was separated on 12 % SDS-PAGE and blotted 1h to PVDF. Blots were blocked with 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) diluted to 1:10 000 in for 1h at RT with agitation. The blot was washed as above and developed for 5 min with ECL according to the manufacturer's instructions. Exposure time was 30 sec.