

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 no **AS09 413**

FtsZ1 and 2 | Plant cell division protein FtsZ1 and FtsZ2

Product information

Background | **FtsZ1 (cell division protein FtsZ homolog 1)** is required for plastid cell division. Localization: pollen grain and plastids of vegetative cells. Alternative names: Chloroplast FtsZ, Protein accumulation and replication of chloroplasts 10, Protein plastid movement impaired4.

FtsZ2 (cell vision protein FtsZ homolog 2) is required for plastid cell division. Present in two isoforms: FtsZ2-1 and FtsZ2-2. Alternative names: Plastid division protein FTSZ2.

Immunogen | Recombinant part of *Arabidopsis thaliana* FtsZ conserved in FtsZ1 [Q42545](#) [At5g55280](#) and FtsZ2 including FtsZ2-1 [O82533](#), [At2g36250](#) and FtsZ2-2 [Q9LXJ0](#), [At3g52750](#) and in a wide range of FtsZ proteins from other plant species.

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 | [AS07 217](#) | Anti-FtsZ | procaryotic cell division GTPase, cyanobacterial, rabbit antibodies
[AS10 715](#) | Anti-FtsZ procaryotic cell division GTPase (bacterial), rabbit antibodies
[AS13 2651](#) | Anti-FtsZ2 plant cell division protein ftsZ2, rabbit antibodies

[Plant protein extraction buffer](#)

[Secondary antibodies](#)

Additional information | This product can be sold containing proclin if requested.

Application information

Recommended dilution | 1 : 2500 (WB)

Expected | apparent MW | 40 kDa FtsZ1 (*Arabidopsis thaliana*) and 50 kDa FtsZ2 (*Arabidopsis thaliana*)

Confirmed reactivity | *Arabidopsis thaliana*, *Hordeum vulgare*

Predicted reactivity | *Chlamydomons reinhardtii*, *Cucumis sativus*, *Gentiana lutea*, *Glycine max*, *Gossypium arobretum*, *Jatropha manihot*, *Lilium longiflorum*, *Lupinus angustifolius*, *Manihot esculenta*, *Marchantia aquatica*, *Medicago truncatula*, *Morus notabilis*, *Nannochloropsis gaditana*, *Nicotiana tabacum*, *Oryza sativa*, *Physcomitrella patens*, *populus trichocarpa*, *Ricinus communis*, *Solanum lycopersicum*, *Sorgum bicolor*, *Theobroma cacao*, *Triticum uRatum*, *Zea mays*, *Yellow gentian*, *Vitis vinifera*
Species of your interest not listed? [Contact us](#)

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

For high resolution images, please visit the specific product page at www.agrisera.com

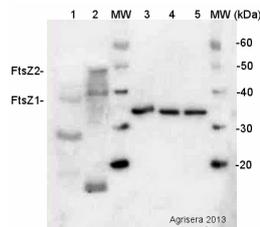
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Application example



2 µg of total protein extracted with PEB ([AS08 300](#)) from leaf tissue of (1) *Hordeum vulgare*, (2) *Arabidopsis thaliana*, (3 - 5) recombinant FtsZ1/FtsZ2 (33 kDa) were separated on **4-12%** NuPage (Invitrogen) **LDS-PAGE** and blotted 1h to **PVDF**. Filters were blocked 1h with 2% low-fat **milk powder** in TBS-T (0.1% TWEEN 20) and probed with **anti-FtsZ1/FtsZ2 antibody** (AS09 413, **1:2500**, 1h) and secondary anti-rabbit (**1:10 000**, 1 h) antibody (HRP conjugated, secondary antibody [AS09 602](#)) in TBS-T containing 2% low fat milk powder. Antibody incubations were followed by washings in TBS-T (15, +5, +5, +5 min). All steps were performed at RT with agitation. Signal was detected with chemiluminescent detection reagent, using a Fuji LAS-3000 CCD (300s, standard sensitivity). Exposure time was 2 min.