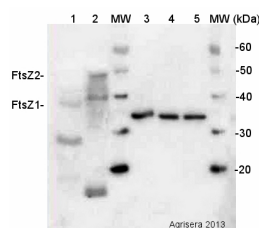


Product no **AS09 413****Anti-FtsZ1 and 2 | Plant cell division protein FtsZ1 and FtsZ2****Product information**

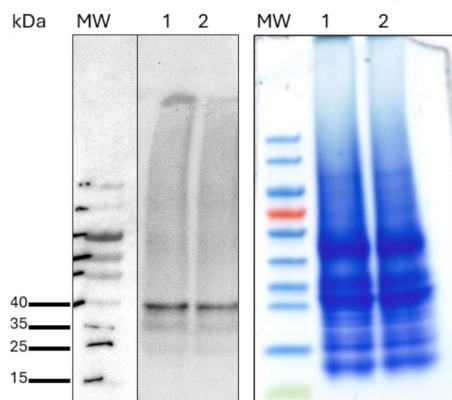
<b>Immunogen</b>	Recombinant part of <i>Arabidopsis thaliana</i> FtsZ conserved in FtsZ1 <a href="#">Q42545</a> <a href="#">At5g55280</a> and FtsZ2 including FtsZ2-1 <a href="#">O82533</a> , <a href="#">At2g36250</a> and FtsZ2-2 <a href="#">Q9LXJ0</a> , <a href="#">At3g52750</a> and in a wide range of FtsZ proteins from other plant species.
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Serum
<b>Format</b>	Lyophilized
<b>Quantity</b>	50 µl
<b>Reconstitution</b>	For reconstitution add 50 µl of sterile water
<b>Storage</b>	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 the cap or sides of the tube.
<b>Additional information</b>	This product can be sold containing proclin if requested

**Application information**

<b>Recommended dilution</b>	1 : 2500 (WB)
<b>Expected   apparent MW</b>	40 kDa FtsZ1 ( <i>Arabidopsis thaliana</i> ) and 50 kDa FtsZ2 ( <i>Arabidopsis thaliana</i> )
<b>Confirmed reactivity</b>	<i>Arabidopsis thaliana</i> , <i>Hordeum vulgare</i> , <i>Physcomitrium patens</i>
<b>Predicted reactivity</b>	<i>Chlamydomons reinhardtii</i> , <i>Cucumis sativus</i> , <i>Gentiana lutea</i> , <i>Glycine max</i> , <i>Gossypium arobretum</i> , <i>Jatropha manihot</i> , <i>Lilium longiflorum</i> , <i>Lupinus angustifolius</i> , <i>Manihot esculenta</i> , <i>Marchantia aquatica</i> , <i>Medicago truncatula</i> , <i>Morus notabilis</i> , <i>Nannochloropsis gaditana</i> , <i>Nicotiana tabacum</i> , <i>Oryza sativa</i> , <i>Populus trichocarpa</i> , <i>Ricinus communis</i> , <i>Solanum lycopersicum</i> , <i>Sorgum bicolor</i> , <i>Theobroma cacao</i> , <i>Triticum uRatum</i> , <i>Zea mays</i> , <i>Yellow gentian</i> , <i>Vitis vinifera</i> Species of your interest not listed? <a href="#">Contact us</a>
<b>Not reactive in</b>	No confirmed exceptions from predicted reactivity are currently known

**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.



30  $\mu$ g of total protein extract from *Physcomitrium patens* protonema culture were loaded as (1) control, and (2) after 2 h treatment with 40 mM glucose. Proteins were separated on a 4–20% TGX gel (Bio-Rad) and transferred to a PVDF membrane for 1 h. Membranes were blocked overnight in TBS-T (0.1% Tween 20) containing 2.5% low-fat milk powder and then probed with anti-FtsZ1/FtsZ2 antibody (AS09 413, 1:2500 in TBS-T with 2.5% low-fat milk) for 1 h at room temperature with agitation. After washing, the membranes were incubated with HRP-conjugated anti-rabbit secondary antibody (AS09 602, 1:25 000 in TBS-T with 2.5% low-fat milk) for 1 h. Washing steps in TBS-T were performed as follows: 3 times for 5 minutes and once for 15 minutes. The signal was developed using chemiluminescent detection reagent (AgriseraECL SuperBright) and visualized with an INTAS ECL ChemoStar. Exposure time was 5 minutes.

Courtesy of Sadia Sayed Tamanna, Technische Universität Kaiserslautern-Landau, Germany