

Product no **AS08 298****CSP41b | ribosome associated endonuclease (CRB)****Product information**

<b>Immunogen</b>	KLH-conjugated synthetic peptide derived from CSP41b protein sequence of <i>Arabidopsis thaliana</i> <a href="#">Q9SA52</a> , <a href="#">At1g09340</a>
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Immunogen affinity purified serum in PBS pH 7.4.
<b>Format</b>	Lyophilized
<b>Quantity</b>	200 µg
<b>Reconstitution</b>	For reconstitution add 200 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.

**Application information**

<b>Recommended dilution</b>	1 : 1000 (WB)
<b>Expected   apparent MW</b>	42   39 kDa
<b>Confirmed reactivity</b>	<i>Arabidopsis thaliana</i> , <i>Pisum sativum</i> , <i>Physcomitrium patens</i>
<b>Predicted reactivity</b>	<i>Oryza sativa</i> , <i>Picea sitcHenis</i> , <i>Populus sp.</i> , <i>Zea mays</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
<b>Selected references</b>	<a href="#">Lang</a> et al. (2011). Simultaneous isolation of pure and intact chloroplasts and mitochondria from moss as the basis for sub-cellular proteomics. <i>Plant Cell Rep.</i> Feb;30(2):205-15. (reactivity confirmed for <i>Physcomitrella patens</i> ). <a href="#">Beligni</a> & Mayfield (2008). <i>Arabidopsis thaliana</i> mutants reveal a role for CSP41a and CSP41b, two ribosome-associated endonucleases, in chloroplast ribosomal RNA metabolism. <i>Plant Mol Biol.</i> 67:389-401. <a href="#">Hassidim</a> et al. (2007). Mutations in CHLOROPLAST RNA BINDING provide evidence for the involvement of the chloroplast in the regulation of the circadian clock in <i>Arabidopsis</i> . <i>Plant J.</i> 51:551-562.

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**10 µg of total leaf protein** from *P.sativum* (1) was separated on **4-12% NuPage** (Invitrogen) and blotted on **nitrocellulose**. Molecular marker was MagicMark (Invitrogen). Filters were blocked overnight in TBST containing 5 % milk powder and incubated with 1:1000 anti-CSP41b antibody (AS08 298, 1h). After incubation with 1:10000 secondary HRP coupled anti-rabbit antibody (1h) signals were visualized with standard chemiluminescence detection reagent.