

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

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

Recommended dilution	1 : 1000 (WB)
Expected apparent MW	42 39 kDa
Confirmed reactivity	<i>Arabidopsis thaliana</i> , <i>Pisum sativum</i> , <i>Physcomitrium patens</i>
Predicted reactivity	<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? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	Lang 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>). Beligni & 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. Hassidim 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.

Application information

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.