# Agrisera

This product is **for research use only** (not for diagnostic or therapeutic use) **contact: support@agrisera.com**

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**Product no AS08 298**

## CSP41b | ribosome associated endonuclease (CRB)

## Product information

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| **Immunogen** | KLH-conjugated synthetic peptide derived from CSP41b protein sequence of *Arabidopsis thaliana* Q9SA52, At1g09340 |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Purity** | 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 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. |

## Application information

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| **Recommended dilution** | 1 : 1000 (WB) |
| **Expected \| apparent MW** | 42 \| 39 kDa |
| **Confirmed reactivity** | *Arabidopsis thaliana, Pisum sativum, Physcomitrella patens* |
| **Predicted reactivity** | *Oryza sativa, Picea sitcHenis, Populus sp., Zea mays, Vitis vinifera*<br>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. Plant Cell Rep. Feb;30(2):205-15. (reactivity confirmed for Physcomitrella patens).<br>Beligni & Mayfield (2008). Arabidopsis thaliana mutants reveal a role for CSP41a and CSP41b, two ribosome-associated endonucleases, in chloroplast ribosomal RNA metabolism. Plant Mol Biol. 67:389-401.<br>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 Arabidopsis. Plant J. 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 where blocked overnight in TBST containing 5 % milkpowder 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 chemiluminescen detection reagent.