

# Anti-Glutamyl-tRNA reductase 1, chloroplastic, C-terminal antibody

Catalog: PHY3643S

## Product Information

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|------------------------|--|
| <b>Description:</b>    | Rabbit polyclonal antibody   |
| <b>Background:</b>     | HEMA1 is a protein with glutamyl-tRNA reductase (GluTR) activity, catalyzing the NADPH-dependent reduction of Glu-tRNA(Glu) to glutamate 1-semialdehyde (GSA) with the release of free tRNA(Glu). It is involved in the early steps of chlorophyll biosynthesis. |
| <b>Synonyms:</b>       | HEMA1, ARABIDOPSIS THALIANA HEMA 1, ATHEMA1, GLUTAMYL-TRNA REDUCTASE, GLUTR  |
| <b>Immunogen:</b>      | KLH-conjugated synthetic peptide (18 aa from C terminal section) derived from <i>Arabidopsis thaliana</i> HEMA1 (AT1G58290).   |
| <b>Form:</b>           | Lyophilized  |
| <b>Quantity:</b>       | 150 µg   |
| <b>Purification:</b>   | Serum<br>Peptide affinity form antibody available upon request at <a href="mailto:info@phytoab.com">info@phytoab.com</a> .   |
| <b>Reconstitution:</b> | Reconstitution with 150µl of sterile water.<br>"Note: please spin tube briefly prior to opening it to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tube".   |
| <b>Stability &amp;</b> | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.  |
| <b>Storage:</b>        | 12 months from date of receipt, -20 to -70°C as supplied.<br>6 months, -20 to -70°C under sterile conditions after reconstitution.<br>1 month, 2 to 8°C under sterile conditions after reconstitution.   |
| <b>Shipping:</b>       | The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.  |

## Application Information

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|--------------------------------|--|
| <b>Recommended Dilution:</b>   | Western Blot (1:1000-1:2000)<br>Note: Optimal dilutions/concentrations should be determined by the end user. |
| <b>Expected / apparent MW:</b> | 60 kDa   |

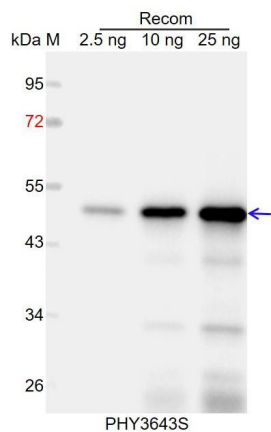
Research Use Only

**Predicted Reactivity:**

Among species analyzed, the sequence of the synthetic peptide used for immunization is 80-99% homologues with the sequence in *Brassica napus*, *Brassica rapa*.

For more species homologues information, please contact tech support at [tech@phytoab.com](mailto:tech@phytoab.com).

**Application Example**



Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 50 kDa.

**Electrophoresis:** 12% SDS-PAGE

**Transfer:** blotting to NC (nitrocellulose) membrane for 1 h.

**Blocking:** 5% skim milk at RT or 4°C for 1 h.

**Primary antibody:** 1:1000 dilution overnight at 4°C.

**Secondary antibody:** 1:10000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000).

**Detection:** using chemiluminescence substrate and image were captured with CCD camera.