Anti-Glutamyl-tRNA reductase 2, chloroplastic antibody

Catalog: PHY0226S

Product Information

Description:	Rabbit polyclonal antibody
Background:	Glutamyl-tRNA reductase is involved in heme biosynthesis in non-photosynthetic tissues and induced by oxidative stress in photosynthetic tissues to supply heme for defensive hemoproteins.
Synonyms:	HEMA2, GluTR
Immunogen:	KLH-conjugated synthetic peptide of HEMA2 derived from *Arabidopsis thaliana* AT1G09940.
Form:	Lyophilized
Quantity:	150 µg
Purification:	Serum Peptide affinity form antibody available upon request at info@phytoab.com.
Reconstitution:	Reconstitution with 150µl of sterile water. "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".
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70℃ as supplied. 6 months, -20 to -70℃ under sterile conditions after reconstitution. 1 month, 2 to 8℃ under sterile conditions after reconstitution.
Shipping:	The product is shipped at 4℃. Upon receipt, store it immediately at the temperature recommended above.

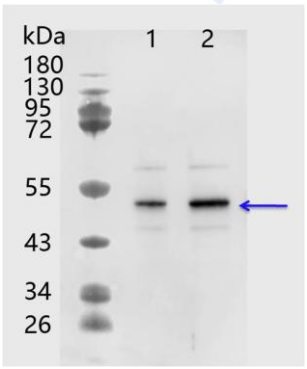
Application Information

Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected/apparent MW:	58 / 52 kDa
Confirmed Reactivity:	*Arabidopsis thaliana*
Predicted Reactivity:	Among 25 analyzed species, the sequence of the synthetic peptide used for immunization is 80-99% homologues with the sequence in *Medicago truncatula, Nicotiana tabacum, Glycine max, Cucumis*

sativus, Oryza sativa Indica Group, Zea mays, Hordeum vulgare subsp. Vulgare, Triticum aestivum.

For more species homologues information, please contact tech support at tech@phytoab.com.

Application Example



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Lane 1: 0.55 µg stromal protein from *Arabidopsis thaliana* leaf.

Lane 2: 1.1 µg stromal protein from *Arabidopsis thaliana* leaf.

Electrophoresis: 12.5% SDS-Urea-PAGE

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

Blocking: 5% skim milk at RT or 4℃ for 1 h.

Primary antibody: 1:2000 dilution overnight at 4℃.

Secondary antibody: 1:20000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000).

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