

Anti-Protein PROTON GRADIENT REGULATION 5, chloroplastic antibody

Catalog: PHY2740S

Product Information

Description:	Rabbit polyclonal antibody
Background:	Protein PROTON GRADIENT REGULATION 5 is involved in the regulation of the cyclic electron flow (CEF) around Photosystem I. It is essential for photoprotection.
Synonyms:	PGR5, ATPGR5, PROTON GRADIENT REGULATION 5
Immunogen:	KLH-conjugated synthetic peptide (17 aa from C terminal section) derived from <i>Arabidopsis thaliana</i> PGR5 (AT2G05620).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Serum Peptide affinity form antibody available upon request at info@phytoab.com .
Reconstitution:	Reconstitution with 150 µl 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°C as supplied. 6 months, -20 to -70°C under sterile conditions after reconstitution. 1 month, 2 to 8°C under sterile conditions after reconstitution.
Shipping:	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.

Application Information

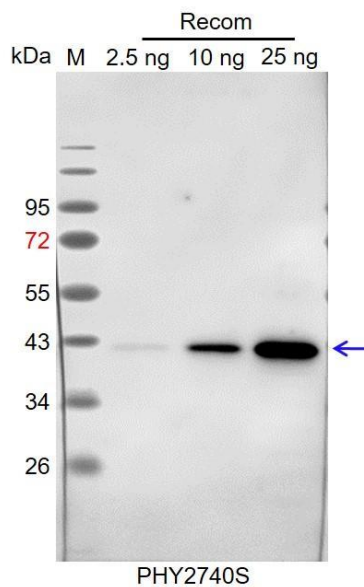
Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	14 kDa
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in <i>Zea mays</i> , <i>Setaria viridis</i> , <i>Brassica napus</i> , <i>Brassica rapa</i> , <i>Sorghum</i>

Research Use Only

bicolor, *Panicum virgatum*, *Populus trichocarpa*, *Medicago truncatula*, *Cucumis sativus*, *Gossypium raimondii*, *Glycine max*, *Spinacia oleracea*, *Oryza sativa Japonica Group*, *Triticum aestivum*, *Hordeum vulgare subsp. vulgare*, *Solanum tuberosum*, *Nicotiana tabacum*, *Solanum lycopersicum*, and 80-99% homologues with the sequence in *Vitis vinifera*, *Physcomitrium patens*.

For more species homologues information, please contact tech support at 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 43 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.