Anti-UDP-glucose pyrophosphorylase antibody

Catalog: PHY3354A

Product Information

Description:	Rabbit polyclonal antibody
Background:	UDP-glucose pyrophosphorylase (UGPase) is an ubiquitous enzyme found in plants, animals and bacteria, and produces UDP-glucose which is the major glycosyl donor for polysaccharides in all organisms (e.g. needed for sucrose synthesis, but also for cellulose and callose formation, and as a precursor to other nucleotide-sugars).
Synonyms:	UGPase
Immunogen:	KLH-conjugated synthetic peptide (13 aa from Central section) derived from *Arabidopsis thaliana* UGP1 (AT3G03250) and UGP2 (AT5G17310).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Immunogen affinity purified
Reconstitution:	Reconstitution with 150 µl of 0.01 M sterile PBS. "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.

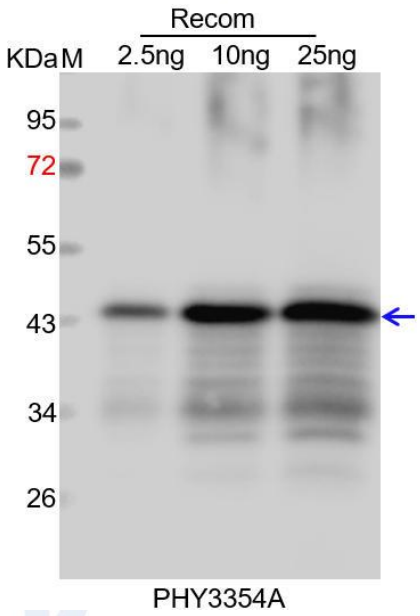
Application Information

Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	52 kDa
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Brassica napus*, *Brassica rapa*, *Panicum virgatum, Zea mays*, *Glycine max,*

Gossypium raimondii, *Solanum tuberosum, Solanum lycopersicum, Sorghum bicolor, Nicotiana tabacum, Cucumis sativus, Oryza sativa, Physcomitrium patens, Tritifcum aestivum, Vitis vinifera.*

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

Application Example



PHY3354A

Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 44 kDa.

Electrophoresis: 12% SDS-PAGE

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

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

Primary antibody: 1:1000 dilution overnight at 4℃.

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.