Anti-Glyceraldehyde-3-phosphate dehydrogenase GAPA1, chloroplastic, C-terminal antibody

Catalog: PHY0408A

Product Information

Description:	Rabbit polyclonal antibody
Background:	GAPA1 is involved in the photosynthetic reductive pentose phosphate pathway. It catalyzes the reduction of 1,3-diphosphoglycerate by NADPH.
Synonyms:	GAPA/B
Immunogen:	KLH-conjugated synthetic peptide (15 aa from C terminal section) derived from *Arabidopsis thaliana* GAPA-1 (AT3G26650), GAPA-2 (AT1G12900) and GAPB (AT1G42970).
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

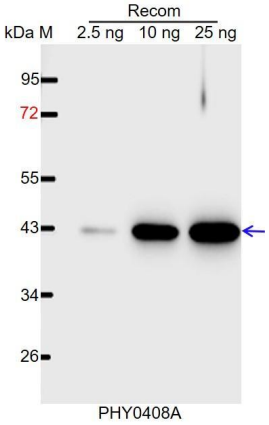
Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	GAPA1/2 (42 / 38) kDa, GAPB (48 / 43) kDa
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Zea mays*, *Populus trichocarpa*, *Solanum tuberosum*, *Solanum lycopersicum*, *Gossypium raimondii*, *Glycine max*, *Vitis vinifera*,

Cucumis sativus, *Medicago truncatula*, *Spinacia oleracea*, *Nicotiana tabacum*, *Brassica napus*, *Brassica rapa*, *Setaria viridis*, *Oryza sativa*, *Panicum virgatum*, *Hordeum vulgare*, *Triticum aestivum*, *Sorghum bicolor.*

The sequence of the synthetic peptide used for immunization is 87% (13/15) in GAPC1 (AT3G04120) and GAPC2 (AT1G13440) and 80% (12/15) homologues with the sequence in GAPCP-1 (AT1G79530) and GAPCP-2 (AT1G16300).

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 42 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.