

# Anti-Glyceraldehyde-3-phosphate dehydrogenase GAPA1, chloroplastic antibody

Catalog: PHY0408S

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	GAPA1 is involved in the photosynthetic reductive pentose phosphate pathway. It catalyzes the reduction of 1,3-diphosphoglycerate by NADPH.
<b>Synonyms:</b>	GAPA1, GAPA, GAPA-1, GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE A SUBUNIT, GLYCERALDEHYDE 3-PHOSPHATE DEHYDROGENASE A SUBUNIT 1
<b>Immunogen:</b>	KLH-conjugated synthetic peptide (15 aa from C terminal section) derived from <i>Arabidopsis thaliana</i> GAPA1 (AT3G26650).
<b>Form:</b>	Lyophilized
<b>Quantity:</b>	150 µg
<b>Purification:</b>	Serum Peptide affinity form antibody available upon request at <a href="mailto:info@phytoab.com">info@phytoab.com</a> .
<b>Reconstitution:</b>	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".
<b>Stability &amp; Storage:</b>	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.
<b>Shipping:</b>	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.

## Application Information

<b>Recommended Dilution:</b>	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
<b>Expected / apparent MW:</b>	GAPA1/2 (42 / 38) kDa, GAPB (48 / 43 ) kDa
<b>Confirmed Reactivity:</b>	<i>Arabidopsis thaliana</i>

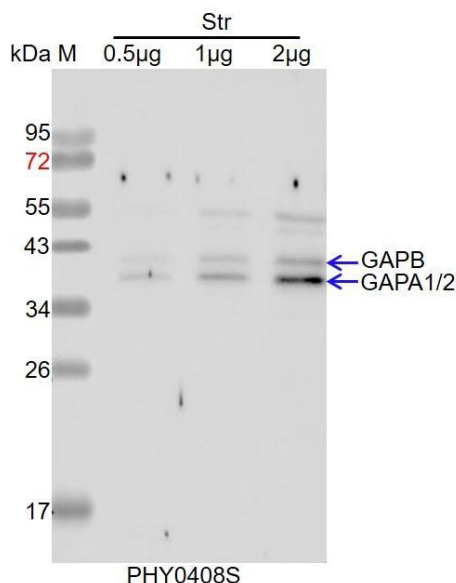
Research Use Only

### 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 Japonica Group*, *Panicum virgatum*, *Hordeum vulgare subsp. vulgare*, *Triticum aestivum*, *Sorghum bicolor*, *Physcomitrium patens*. The sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in GAPA2 (AT1G12900) and GAPB (AT1G42970), and 86% in GAPC1 (AT3G04120) and GAPC2 (AT1G13440).

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

### Application Example



Str: 0.5 µg, 1 µg and 2 µg stromal protein from *Arabidopsis thaliana*, respectively.

**Electrophoresis:** 15% 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:** 1:2000 dilution overnight at 4°C.

**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.