Anti-Glyceraldehyde-3-phosphate dehydrogenase GAPC2, cytosolic antibody

Catalog: PHY0303A

Product Information

Description:	Rabbit polyclonal antibody
Background:	Glyceraldehyde 3-phosphate dehydrogenase (GAPDH) is an enzyme of ~37kDa that catalyzes the sixth step of glycolysis and thus serves to break down glucose for energy and carbon molecules. Plants contain both cytosolic and chloroplastic GAPDHs (glyceraldehyde-3-phosphate dehydrogenases). In Arabidopsis thaliana, cytosolic GAPDH is involved in the glycolytic pathway and is represented by two differentially expressed isoforms (GapC1 AT3G04120 and GapC2 AT1G13440) that are 98% identical in amino acid sequence.
Synonyms:	GAPC2, GAPC-2, GLYCERALDEHYDE-3-PHOSPHATE DEHYDROGENASE C-2, GLYCERALDEHYDE-3-PHOSPHATE DEHYDROGENASE C2
Immunogen:	KLH-conjugated synthetic peptide (14 aa from N terminal section) derived from *Arabidopsis thaliana* GAPC2 (AT1G13440).
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: 37 kDa

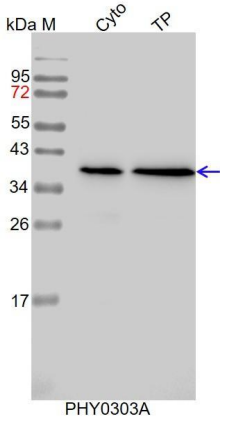
Confirmed Reactivity: *Arabidopsis thaliana*

Predicted Reactivity: Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Solanum tuberosum*, *Brassica napus*, *Brassica rapa*, *Solanum lycopersicum*, and 80-99% homologues with the sequence in *Glycine max*, *Triticum aestivum*, *Hordeum vulgare*, *Panicum virgatum*, *Sorghum bicolor*, *Leymus chinensis*.

The sequence of the synthetic peptide used for immunization is 93% (13/14) homologues with the sequence in GAPC1 (AT3G04120).

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

Application Example



Cyto: 24 μg cytosolic protein from *Arabidopsis thaliana*.

TP: 30 μg total protein from *Arabidopsis thaliana*.

Electrophoresis: 15% SDS-PAGE

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

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

Primary antibody: 1:2000 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.