

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

Catalog: PHY0303A

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	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 <i>Arabidopsis thaliana</i> , 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.
<b>Synonyms:</b>	GAPDH, GAPC-2, GAPC2, GLYCERALDEHYDE-3-PHOSPHATE DEHYDROGENASE C-2
<b>Immunogen:</b>	KLH-conjugated synthetic peptide (14 aa from N terminal section) derived from <i>Arabidopsis thaliana</i> GAPDH (AT1G13440).
<b>Form:</b>	Lyophilized
<b>Quantity:</b>	150 µg
<b>Purification:</b>	Immunogen affinity purified
<b>Reconstitution:</b>	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".
<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.
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Research Use Only

**Expected / apparent MW:** 37 kDa

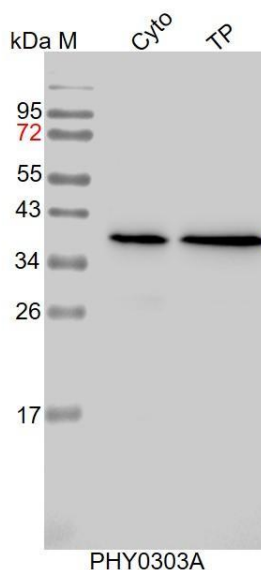
**Confirmed Reactivity:** *Arabidopsis thaliana*

**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% (14/15) homologues with the sequence in GAPC1 (AT3G04120).

For more species homologues information, please contact tech support at [tech@phytoab.com](mailto: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°C for 1 h.

**Primary antibody:** 1:2000 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.