

# Anti-Cytosolic fructose-1,6 bisphosphatase antibody

Catalog: PHY3095A

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	Fructose-1,6-bisphosphatase catalyzes the formation of fructose-6-phosphate for sucrose biosynthesis, it appears to play a role in fructose-mediated signaling that is independent of its enzymatic activity. During the photosynthesis, two isoforms of the fructose-1,6-bisphosphatase (FBPase), the chloroplastidial (cFBP1) (AT3G54050) and the cytosolic (cyFBP) (AT1G43670), catalyse the first irreversible step during the conversion of triose phosphates (TP) to starch or sucrose, respectively.
<b>Synonyms:</b>	cFBPase, ATCFBP, CYFBP, FBP, FINS1, FRUCTOSE INSENSITIVE 1, FRUCTOSE-1,6-BISPHOSPHATASE
<b>Immunogen:</b>	KLH-conjugated synthetic peptide (16 aa from N terminal section) derived from <i>Arabidopsis thaliana</i> cFBPase (AT1G43670).
<b>Form:</b>	Lyophilized
<b>Quantity:</b>	150 µg
<b>Purification:</b>	Immunogen affinity purified
<b>Reconstitution:</b>	Reconstitution with 150µl 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.
<b>Expected/apparent MW:</b>	37 kDa

Research Use Only

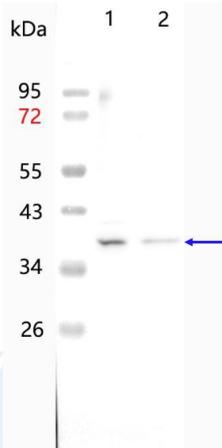
**Confirmed Reactivity:**

*Arabidopsis thaliana*

**Predicted Reactivity:**

Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Gossypium raimondii*, *Solanum lycopersicum*, *Zea mays*, *Sorghum bicolor*, *Populus trichocarpa*, *Solanum tuberosum*, *Nicotiana tabacum*, and 80-99% homologues with the sequence in *Glycine max*, *Medicago truncatula*, *Panicum virgatum*, *Setaria viridis*.  
For more species homologues information, please contact tech support at [tech@phytoab.com](mailto:tech@phytoab.com).

## Application Example



Lane 1: 18 µg cytosolic protein from *Arabidopsis thaliana*.

Lane 2: 15 µg refined extracted 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.

**PHY3095A**