

Anti-Transcription factor PIF1 antibody

Catalog: PHY1600S

Product Information

Description:	Rabbit polyclonal antibody
Background:	PIF1 is a novel Myc-related bHLH transcription factor that has transcriptional activation activity in the dark. It is a key negative regulator of phytochrome-mediated seed germination and acts by inhibiting chlorophyll biosynthesis, light-mediated suppression of hypocotyl elongation and far-red light-mediated suppression of seed germination, and promoting negative gravitropism in hypocotyls. It also negatively regulates GA3 oxidase expression.
Synonyms:	PIF1, PHY-INTERACTING FACTOR 1, PHYTOCHROME INTERACTING FACTOR 3-LIKE 5, PIL5
Immunogen:	Recombinant protein of PIF1 (55-280 aa) derived from <i>Arabidopsis thaliana</i> AT2G20180.
Form:	Lyophilized
Quantity:	150 µg
Purification:	Serum
Reconstitution:	Reconstitution with 150µl 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".
Stability & Storage:	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.
Shipping:	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.

Application Information

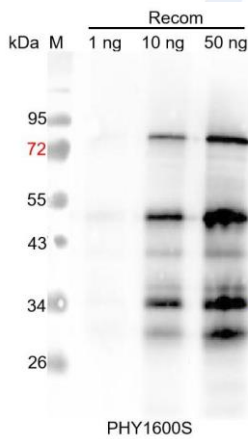
Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	45 kDa

Research Use Only

Confirmed Reactivity: *Arabidopsis thaliana*

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

Application Example



Recom: 1 ng, 10 ng and 50 ng recombinant protein containing the peptide for immunization and having a molecular mass of 34 kDa.

Electrophoresis: 12% 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: 1:1000 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.