Anti-YCF3, C-terminal antibody

Catalog: PHY0440S

Product Information

Description:	Rabbit polyclonal antibody
Background:	YCF3 is essential for the assembly of the photosystem I (PSI) complex. In Chlamydomonas reinhardtii, it seems to act as a PSI specific chaperone facilitating the assembly of the complex by interacting with PsaA and PsaD.
Synonyms:	YCF3.
Immunogen:	KLH-conjugated synthetic peptide of YCF3 derived from *Arabidopsis thaliana* ATCG00360.
Form:	Lyophilized
Quantity:	150 µg
Purification:	Serum Peptide affinity form antibody available upon request at info@phytoab.com.
Reconstitution:	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".
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

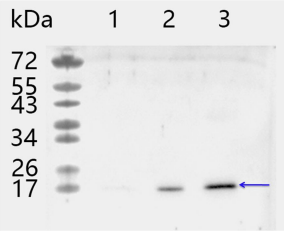
Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected/apparent MW:	15 / 16 kDa
Confirmed Reactivity:	*Arabidopsis thaliana*
Predicted Reactivity:	Among 25 analyzed species, the sequence of the synthetic peptide used for immunization is 80-99% homologues with the sequence in *Cucumis sativus, Gossypium raimondii, Populus trichocarpa,*

Solanum tuberosum, Nicotiana tabacum, Vitis vinifera, Oryza sativa Indica Group, Zea mays, Triticum aestivum, Hordeum vulgare subsp. Vulgare, Glycine max, Solanum lycopersicum, Spinacia oleracea, Physcomitrella patens.

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

Application Example

Example 1



Lane 1: 10 ng recombinant protein of YCF3.

Lane 2: 50 ng recombinant protein of YCF3.

Lane 3: 100 ng recombinant protein of YCF3.

Electrophoresis: 15% SDS-Urea-PAGE

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

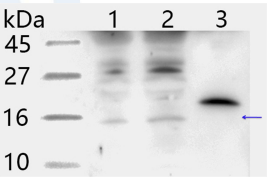
PHY0440S **Blocking:** 5% skim milk at RT or 4℃ for 1 h.

Primary antibody: 1:2000 dilution overnight at 4℃.

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.

Example 2



1-2 is thylakoid membrane protein from WT of *Arabidopsis thaliana* leaf containing 2.5 μg and 5 μg of chlorophyll, respectively.

Lane 3: 100 ng recombinant protein of YCF3.

PHY0440S **Electrophoresis:** Tricine-SDS-PAGE

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

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

Primary antibody: 1:1000 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.