

Anti-Subunit IV of Cyt b6/f complex antibody

Catalog: PHY0354

Product Information

Description:	Rabbit polyclonal antibody
Background:	Cytochrome b6-f complex subunit 4 is Component of the cytochrome b6-f complex, which mediates electron transfer between photosystem II (PSII) and photosystem I (PSI), cyclic electron flow around PSI, and state transitions.
Synonyms:	PetD, 17 kDa polypeptide.
Immunogen:	KLH-conjugated synthetic peptide of PetD derived from <i>Arabidopsis thaliana</i> ATCG00730.
Form:	Lyophilized
Quantity:	150 µg
Purification:	Protein A 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°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

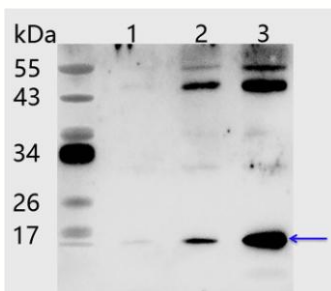
Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected/apparent MW:	17 kDa
Confirmed Reactivity:	<i>Arabidopsis thaliana</i>
Predicted Reactivity:	Among 25 analyzed species, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in <i>Zea mays</i> , <i>Solanum lycopersicum</i> , <i>Hordeum vulgare subsp. Vulgare</i> , <i>Oryza sativa Indica Group</i> , <i>Populus trichocarpa</i> , <i>Medicago</i>

Research Use Only

truncatula, *Brassica napus*, *Glycine max*, *Solanum lycopersicum*, *Physcomitrella patens*, *Triticum aestivum*, *Spinacia oleracea*, *Nicotiana tabacum*, *Setaria viridis*, *Medicago truncatula*, *Synechocystis sp. PCC 6803*, *Cucumis sativus*, and 80-99% homologues with the sequence in *Chlamydomonas reinhardtii*. For more species homologues information, please contact tech support at tech@phytoab.com.

Application Example

Example 1



PHY0354

1-3 is thylakoid membrane protein from *Arabidopsis thaliana* leaf containing 0.1 µg, 0.25 µg, and 0.5 µg of chlorophyll, respectively.

Electrophoresis: 15% SDS-Urea-PAGE

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

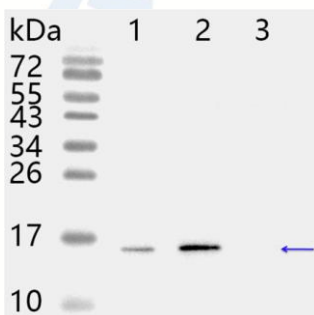
Blocking: 5% skim milk at RT or 4°C for 1 h.

Primary antibody: 1:1000 dilution overnight at 4°C.

Secondary antibody: 1:20000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000).

Detection: using chemiluminescence substrate and image were captured with CCD camera.

Example 2



PHY0354

1-2 is thylakoid membrane protein from WT of *Arabidopsis thaliana* leaf containing 0.25 µg and 0.5 µg of chlorophyll, respectively.

3 is thylakoid membrane protein from *Arabidopsis* mutant with low accumulation of Cyt b6f complex containing 0.5 µg of chlorophyll.

Electrophoresis: 15% SDS-Urea-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: 1:20000 dilution using Goat Anti-Rabbit IgG H&L(HRP) (Cat# PHY6000).

Detection: using chemiluminescence substrate and image were captured with CCD camera.