

Anti-Cytochrome f antibody

Catalog: PHY0488A

Product Information

Description:	Rabbit polyclonal antibody
Background:	Cytochrome f is a component of 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:	PetA, photosynthetic electron transfer A, Cyt f.
Immunogen:	KLH-conjugated synthetic peptide of PetA derived from <i>Arabidopsis thaliana</i> ATCG00540.
Form:	Lyophilized
Quantity:	150 µg
Purification:	Immunogen affinity 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

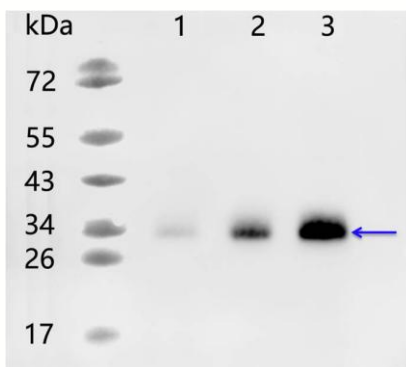
Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected/apparent MW:	35 / 34 kDa
Confirmed Reactivity:	<i>Arabidopsis thaliana</i>
Predicted Reactivity:	Among 25 analyzed species, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in <i>Brassica napus</i> , <i>Oryza sativa Japonica Group</i> , and 80-99% homologues with the sequence in <i>Nicotiana tabacum</i> , <i>Zea mays</i> ,

Research Use Only

Panicum virgatum, *Sorghum bicolor*, *Glycine max*, *Vitis vinifera*,
Medicago truncatula f. tricycle, *Gossypium raimondii*, *Medicago*
truncatula, *Solanum tuberosum*, *Spinacia oleracea*, *Populus*
trichocarpa, *Triticum aestivum*, *Hordeum vulgare subsp. Vulgare*.
 For more species homologues information, please contact tech
 support at tech@phytoab.com.

Application Example

Example 1



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.

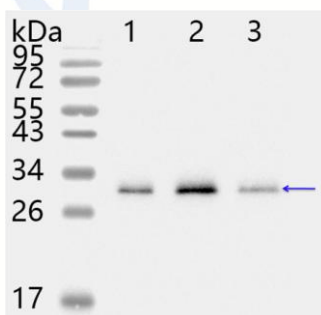
Blocking: 5% skim milk at RT or 4°C for 1 h.

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



PHY0488A

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.