

Anti-Cytochrome f antibody

Catalog: PHY0023

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, PETA, PHOTOSYNTHETIC ELECTRON TRANSFER A
Immunogen:	KLH-conjugated synthetic peptide (15 aa from N terminal section) derived from <i>Arabidopsis thaliana</i> PetA (ATCG00540).
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:	35 / 39 kDa
Confirmed Reactivity:	<i>Arabidopsis thaliana</i>
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in <i>Brassica napus</i> , <i>Brassica rapa</i> , and 80-99% homologues with the sequence in <i>Glycine max</i> , <i>Medicago truncatula</i> , <i>Oryza sativa</i> , <i>Leymus chinensis</i> ,

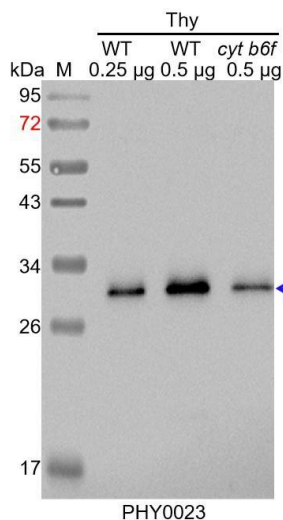
Research Use Only

Populus trichocarpa, *Solanum tuberosum*, *Gossypium raimondii*,
Hordeum vulgare, *Cucumis sativus*, *Nicotiana tabacum*, *Spinacia oleracea*,
Vitis vinifera, *Triticum aestivum*, *Zea mays*, *Panicum virgatum*,
Sorghum bicolor, *Physcomitrella patens*, *Chlamydomonas reinhardtii*.

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

Application Example

Example1:



Thy-WT: thylakoid membrane protein from WT of *Arabidopsis thaliana* containing 0.25 µg and 0.5 µg of chlorophyll, respectively.

Thy-cyt b6f: thylakoid membrane protein from a *cyt b6f* mutant of *Arabidopsis thaliana* containing 0.5 µg of chlorophyll.

Electrophoresis: 15% SDS-Urea-PAGE

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

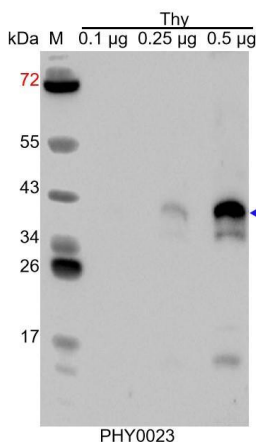
Blocking: 5% skim milk at RT or 4°C for 1 h.

Primary antibody: 1:1000 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.

Example2:



Thy: thylakoid membrane protein from *Arabidopsis thaliana* 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: 1:2000 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.