Anti-Thylakoid membrane cytochrome b6 protein, N terminal antibody

Catalog: PHY0020S

Product Information

Description:	Rabbit polyclonal antibody
Background:	The cytochrome b(6) subunit is the component of the cytochrome b6f complex, which mediates electron transfer between photosystem II (PSII) and photosystem I (PSI), cyclic electron flow around PSI, and state transitions.
Synonyms:	PetB, Cytochrome b6/f complex, Cyt b6
Immunogen:	KLH-conjugated synthetic peptide derived from N-terminal of PetB *Arabidopsis thaliana* ATCG00720.
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℃ 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.

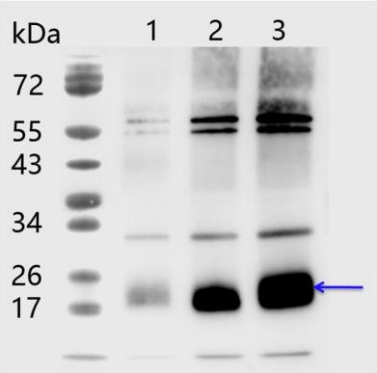
Application Information

Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected/apparent MW:	24 kDa
Confirmed Reactivity:	*Arabidopsis thaliana*
Predicted Reactivity:	Among 25 analyzed species, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Zea*

mays, Hordeum vulgare subsp. Vulgare, Triticum aestivum, Cucumis sativus, Medicago truncatula, Setaria viridis, Panicum virgatum, Oryza sativa Indica Group, Glycine max, Physcomitrella patens, Solanum tuberosum, Nicotiana tabacum, Chlamydomonas reinhardtii, Spinacia oleracea, Vitis vinifera, Brassica napus, and 80-99% homologues with the sequence in *Populus trichocarpa.* For more species homologues information, please contact tech support at tech@phytoab.com.

Application Example

Example 1



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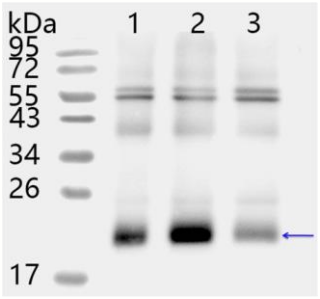
1-3 is thylakoid membrane protein from *Arabidopsis thaliana* leaf containing 0.1 μg, 0.25 μg, and 0.5 μg of chlorophyll, respectively.
Electrophoresis: 15% SDS-Urea-PAGE
Transfer: blotting to NC (nitrocellulose) membrane for 1 h.
Blocking: 5% skim milk at RT or 4℃ for 1 h.
Primary antibody: 1:2000 dilution 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



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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℃ for 1 h.
Primary antibody: 1:1000 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.