

Anti-PetD antibody

Catalog: PHY7149A

Product Information

Description:	Rabbit polyclonal antibody
Background:	PetD is subunit IV of the chloroplast cytochrome <i>b₆f</i> complex. It mediates electron transfer between photosystem II and photosystem I, cyclic electron flow, and state transitions. It localizes to the chloroplast thylakoid membrane.
Synonyms:	PetD, PETD, PHOTOSYNTHETIC ELECTRON TRANSFER D
Immunogen:	KLH-conjugated synthetic peptide (20 aa from N terminal section) derived from <i>Arabidopsis thaliana</i> PetD (ATCG00730).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Immunogen affinity purified
Reconstitution:	Reconstitution with 150 µl of sterile 1XPBS (PH=7.4) containing 30% glycerol. "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

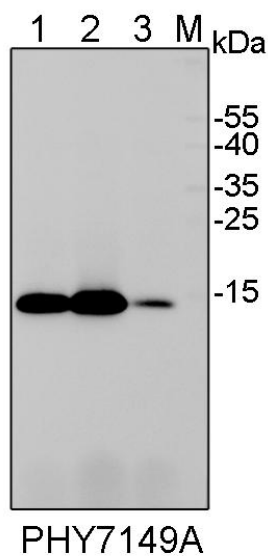
Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	15 kDa
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in <i>Brassica rapa</i> , <i>Zea mays</i> , <i>Hordeum vulgare subsp. vulgare</i> , <i>Cucumis sativus</i> , <i>Populus trichocarpa</i> , <i>Leymus chinensis</i> , <i>Setaria viridis</i> , <i>Oryza sativa</i> ,

Research Use Only

Solanum lycopersicum, *Sorghum bicolor*, *Vitis vinifera*, *Medicago truncatula*, *Triticum aestivum*, *Brassica napus*, *Spinacia oleracea*, *Solanum tuberosum*, *Glycine max*, *Gossypium raimondii*, and 80-99% homologues with the sequence in *Physcomitrium patens*, *Panicum virgatum*, *Chlamydomonas reinhardtii*, *Synechococcus elongatus* PCC 7942, *Synechocystis* sp. PCC 6803.

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

Application Example



Lane 1: 12.5 µg Arabidopsis thylakoid membrane protein (WT)

Lane 2: 25 µg Arabidopsis thylakoid membrane protein (WT)

Lane 3: 25 µg Arabidopsis thylakoid membrane protein (Cyt *b₆f* mutant)

Electrophoresis: 12% Tricine-SDS-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.