Anti-PLASTID TRANSCRIPTIONALLY ACTIVE 6 antibody

Catalog: PHY0383A

Product Information

Description:	Rabbit polyclonal antibody
Background:	In chloroplasts, transcription of plastid genes is mediated by two types of RNA polymerase: plastid-encoded RNA polymerase (PEP) and nuclear encoded RNA polymerase (NEP).Transcription in plastids is also mediated by a number of nuclear-encoded factors in addition to PEP and NEP. In the insoluble RNA polymerase preparation samples, a total of 18 components named as pTACs (pTAC1 to pTAC18) were identified. pTAC6 (AT1G21600) is one of the components associated with PEP complex.
Synonyms:	pTAC6, PAP8, PLASTID TRANSCRIPTIONALLY ACTIVE 6, PEP-ASSOCIATED PROTEIN 8
Immunogen:	KLH-conjugated synthetic peptide (15 aa from Central section) derived from *Arabidopsis thaliana* pTAC6 (AT1G21600).
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℃ 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.

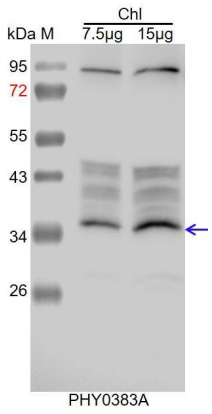
Expected / apparent MW: 37 kDa

Confirmed Reactivity: *Arabidopsis thaliana*

Predicted Reactivity: Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Glycine max*, *Solanum tuberosum*, *Vitis vinifera*, *Brassica rapa*, *Brassica napus*, *Gossypium raimondii*, *Nicotiana tabacum*, *Spinacia oleracea*, *Medicago truncatula*, and 80-99% homologues with the sequence in *Solanum lycopersicum*, *Populus trichocarpa*, *Cucumis sativus*, *Panicum virgatum*, *Triticum aestivum*, *Hordeum vulgare*, *Zea mays*, *Sorghum bicolor*, *Setaria viridis*, *Oryza sativa*, *Physcomitrium patens*. For more species homologues information, please contact tech support at tech@phytoab.com.

Application Example

Example1:



Chl: 7.5 μg and 15 μg total chloroplast protein from *Arabidopsis thaliana*, respectively.

Electrophoresis: 15% SDS- PAGE

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

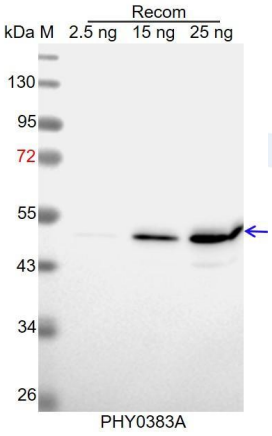
Blocking: 5% skim milk at RT or 4℃ for 1 h.

Primary antibody: 1:2000 dilution overnight at 4℃.

Secondary antibody: 1:10000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000)

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

Example2:



Recom: 2.5 ng, 15 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 50 kDa.

Electrophoresis: 12% SDS-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: 1:10000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000).

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