Anti-Translocase of chloroplast 132, chloroplastic antibody

Catalog: PHY0465A

Product Information

Description:	Rabbit polyclonal antibody
Background:	The Translocon at the Outer envelope membrane of Chloroplasts (TOC) complex transports nuclear-encoded proteins into plastids, and a receptor of this complex, Toc132 seems to recognize chloroplast-destined precursor proteins and regulate their presentation to the translocation channel through GTP hydrolysis. In *Arabidopsis thaliana*, four psToc159 homologs are identified, termed atToc159(AT4G02510), atToc132(AT2G16640), atToc120(AT3G16620) and atToc90(AT5G20300).
Synonyms:	TOC132, AIC1, ARSENATE INDUCED CHLOROSIS 1, ATTOC132, MULTIMERIC TRANSLOCON COMPLEX IN THE OUTER ENVELOPE MEMBRANE 132
Immunogen:	KLH-conjugated synthetic peptide (15 aa from C terminal section) derived from *Arabidopsis thaliana* TOC132 (AT2G16640).
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.

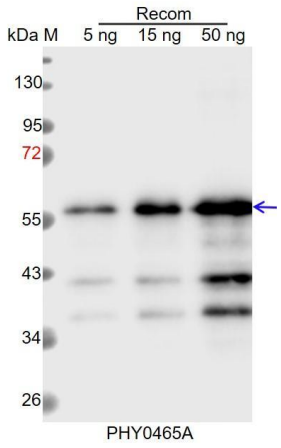
Expected / apparent MW: 132 kDa

Predicted Reactivity: Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Nicotiana tabacum*, *Solanum tuberosum*, *Solanum lycopersicum*, *Vitis vinifera*, *Cucumis sativus*, and 80-99% homologues with the sequence in *Populus trichocarpa*, *Spinacia oleracea*, *Glycine max*, *Brassica napus*, *Brassica rapa*, *Medicago truncatula*, *Physcomitrium patens, Gossypium raimondii.*

The sequence of the synthetic peptide used for immunization is 93% homologues with the sequence in TOC120 (AT3G16620).

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

Application Example



Recom: 5 ng, 15 ng and 50 ng recombinant protein containing the peptide for immunization and having a molecular mass of 56 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.