Anti-TOC33 antibody

Catalog: PHY0143A

Product Information

Description:	Rabbit polyclonal antibody
Background:	TOC33 (AT1G02280) is a component of the chloroplast protein import machinery, which consists of three core components, namely the pore-forming Toc75 (AT1G35860, AT3G46740, AT4G09080, AT5G19620) and two GTPases Toc33 (AT1G02280) and Toc159 (AT4G02510). Toc33 and Toc159 may regulate precursor protein perception and their transport to the translocation pore.
Synonyms:	TOC33, ATTOC33, PLASTID PROTEIN IMPORT 1, PPI1, TRANSLOCON AT THE OUTER ENVELOPE MEMBRANE OF CHLOROPLASTS 33
Immunogen:	KLH-conjugated synthetic peptide (15 aa from central section) derived from *Arabidopsis thaliana* TOC33 (AT1G02280).
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℃ 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

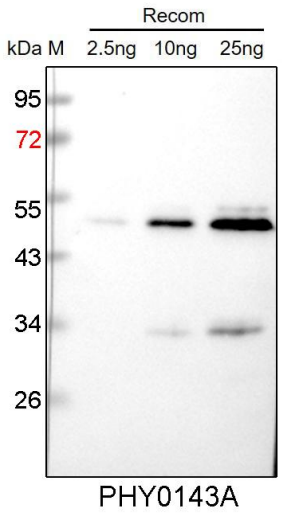
Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	33 kDa
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used

for immunization is 80-99% homologues with the sequence in *Brassica rapa, Brassica napus*.

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

Application Example

Example 1



Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 52 kDa.

Electrophoresis: 12% SDS-PAGE

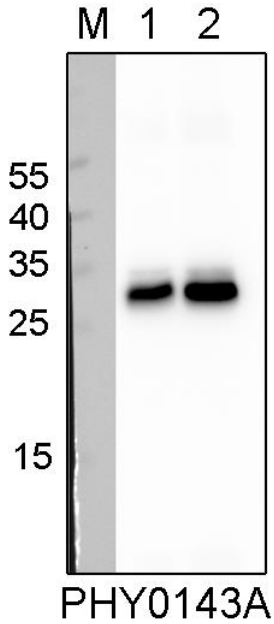
Transfer: blotting to NC (nitrocellulose) membrane for 1 h.

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.



Example 2

Lane 1: 25 μg Arabidopsis chloroplast total protein.

Lane 2: 50 μg Arabidopsis chloroplast total protein.

Electrophoresis: 12.5% 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.