

Anti-TOC33 antibody

Catalog: PHY0650A

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 (14 aa from C terminal section) derived from <i>Arabidopsis thaliana</i> TOC33 (AT1G02280).
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°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:	33 kDa

Research Use Only

Confirmed Reactivity:

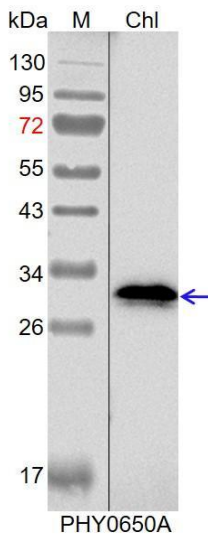
Arabidopsis thaliana

Predicted Reactivity:

Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Brassica napus*, *Brassica rapa*.

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

Application Example



Chl: 10 µl total chloroplast protein from *Arabidopsis thaliana*.

Electrophoresis: 15% SDS-PAGE

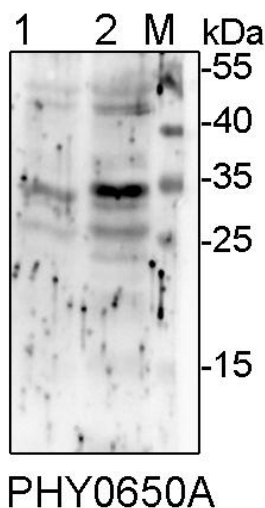
Transfer: blotting to NC (nitrocellulose) membrane for 1 h.

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

Primary antibody: 1:2000 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.



Lane 1: 25 µg Arabidopsis whole leaf protein (WT)

Lane 2: 50 µg Arabidopsis whole leaf protein (WT)

Electrophoresis: 12.5% 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.