

# Anti-Translocase of chloroplast 132, chloroplastic antibody

Catalog: PHY0465A

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	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 <i>Arabidopsis thaliana</i> , four psToc159 homologs are identified, termed atToc159(AT4G02510), atToc132(AT2G16640), atToc120(AT3G16620) and atToc90( AT5G20300).
<b>Synonyms:</b>	TOC132, AIC1, ARSENATE INDUCED CHLOROSIS 1, ATTOC132, MULTIMERIC TRANSLOCON COMPLEX IN THE OUTER ENVELOPE MEMBRANE 132
<b>Immunogen:</b>	KLH-conjugated synthetic peptide (15 aa from C terminal section) derived from <i>Arabidopsis thaliana</i> TOC132 (AT2G16640).
<b>Form:</b>	Lyophilized
<b>Quantity:</b>	150 µg
<b>Purification:</b>	Immunogen affinity purified
<b>Reconstitution:</b>	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".
<b>Stability &amp; Storage:</b>	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.
<b>Shipping:</b>	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.

## Application Information

<b>Recommended Dilution:</b>	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the
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Research Use Only

end user.

**Expected / apparent MW:**

132 kDa

**Confirmed Reactivity:**

Coming soon

**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](mailto:tech@phytoab.com).