

# Anti-TOC75-3/4, chloroplastic, C-terminal antibody

Catalog: PHY0130A

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	TOC75-III/IV are Component of the translocon outer membrane (TOC) complex.
<b>Synonyms:</b>	TOC75-III/IV, TRANSLOCON AT THE OUTER ENVELOPE MEMBRANE OF CHLOROPLASTS 75-III/IV
<b>Immunogen:</b>	KLH-conjugated synthetic peptide (15 aa from C terminal section) derived from <i>Arabidopsis thaliana</i> TOC75-III (AT3G46740) and TOC75-IV (AT4G09080).
<b>Form:</b>	Lyophilized
<b>Quantity:</b>	150 µg
<b>Purification:</b>	Immunogen Affinity Purified
<b>Reconstitution:</b>	Reconstitution with 150 µl of sterile 1×PBS (PH=7.4). "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 end user.
<b>Expected / apparent MW:</b>	89 kDa
<b>Predicted Reactivity:</b>	Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in <i>Brassica napus</i> , <i>Brassica rapa</i> , <i>Gossypium raimondii</i> , <i>Spinacia oleracea</i> , <i>Nicotiana tabacum</i> , <i>Solanum lycopersicum</i> , <i>Cucumis sativus</i> , <i>Vitis vinifera</i> , <i>Medicago truncatula</i> , <i>Populus trichocarpa</i> , <i>Solanum tuberosum</i> , <i>Oryza sativa</i> , <i>Panicum virgatum</i> , <i>Zea mays</i> , <i>Setaria</i>

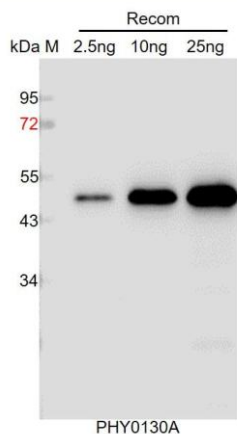
Research Use Only

*viridis*, *Sorghum bicolor*, *Hordeum vulgare*, *Triticum aestivum*.

The sequence of the synthetic peptide used for immunization is 93% (14 / 15) homologues with the sequence in TOC75-I (AT1G35860).

For more species homologues information, please contact tech support at [tech@phytoab.com](mailto:tech@phytoab.com).

## Application Example



Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 48 kDa.

**Electrophoresis:** 12% SDS-PAGE

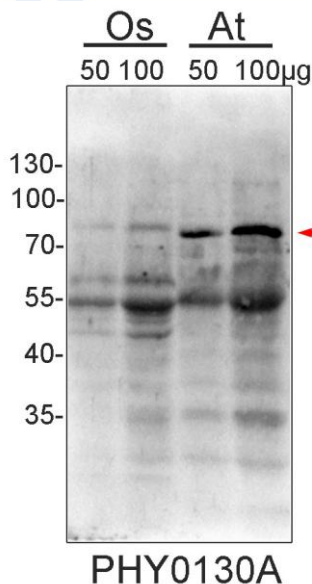
**Transfer:** blotting to NC (nitrocellulose) membrane for 1 h.

**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.



50 and 100 µg total protein isolated from young leaves of *Oryza sativa* and *Arabidopsis thaliana* was used for immunoblotting analysis. The TOC75 signals from *Oryza sativa* are slightly larger than those from *Arabidopsis thaliana* and all of them have molecular mass between 70 and 100 kDa.

**Electrophoresis:** 10% 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.