

# Anti-Sec-independent protein translocase protein TATA, chloroplastic antibody

Catalog: PHY1395A

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	THA4 has similar structures with Hcf106. Three components of the thylakoidal Tat machinery have been identified which are addressed as THA4 (AT5G28750), HCF106 (AT5G52440), and TatC (AT2G01110). They are all encoded in the nucleus and synthesised in the cytosol as precursor polypeptides with N-terminal transit peptides for transport into the chloroplast.
<b>Synonyms:</b>	THA4, TatA, THYLAKOID ASSEMBLY 4, TWIN-ARGININE TRANSLOCATION A, TATA
<b>Immunogen:</b>	KLH-conjugated synthetic peptide (15 aa from C terminal section) derived from <i>Arabidopsis thaliana</i> THA4 (AT5G28750).
<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 (1:100-1:500) Note: Optimal dilutions/concentrations should be determined by the end user.
<b>Expected / apparent MW:</b>	16 / 9 kDa

Research Use Only

**Confirmed Reactivity:**

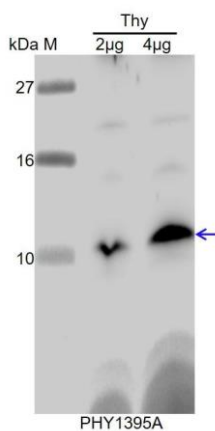
*Arabidopsis thaliana*

**Predicted Reactivity:**

Among species analyzed, the sequence of the synthetic peptide used for immunization is 80-99% homologues with the sequence in *Brassica napus*, *Brassica rapa*.

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

## Application Example



Thy: thylakoid membrane protein from WT of *Arabidopsis thaliana* containing 2 µg and 4 µg of chlorophyll, respectively.

**Electrophoresis:** Tricine-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:** 1:500 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.