# Anti-Protein THYLAKOID FORMATION 1, chloroplastic antibody

**Catalog:** PHY0145A

## Product Information

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| **Description:** | Rabbit polyclonal antibody |
| **Background:** | Chloroplast-localized Thylakoid formation1 gene product involved in vesicle-mediated formation of thylakoid membranes. Thf1 antisense lines contain abnormal chloroplasts early in leaf development (chloroplasts have loosely stacked thylakoid membranes). Expression was induced in the light and decreased under dark conditions. G-alpha interaction partner that functions downstream of the plasma membrane–delimited heterotrimeric G-protein (GPA1) in a D-glucose signaling pathway. Localized to both the outer plastid membrane and the stroma. Probably involved in the metabolic pathway that controls the assembly of the PS II complex. The mRNA is cell-to-cell mobile. |
| **Synonyms:** | PSB29, THF1, PHOTOSYSTEM II REACTION CENTER PSB29 PROTEIN, THYLAKOID FORMATION1 |
| **Immunogen:** | KLH-conjugated synthetic peptide (15 aa from Central section) derived from *Arabidopsis thaliana* PSB29 (AT2G20890). |
| **Form:** | Lyophilized |
| **Quantity:** | 150 µg |
| **Purification:** | Immunogen affinity purified |
| **Reconstitution:** | Reconstitution with 150 µl of 0.01 M sterile PBS.<br>"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.<br>12 months from date of receipt, -20 to -70℃ as supplied.<br>6 months, -20 to -70℃ under sterile conditions after reconstitution.<br>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

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| **Recommended Dilution:** | Western Blot (1:1000-1:2000) |

Note: Optimal dilutions/concentrations should be determined by the end user.

**Expected / apparent MW:** 34 kDa

**Confirmed Reactivity:** Coming soon

**Predicted Reactivity:** Among species analyzed, the sequence of the synthetic peptide used for immunization is 80-99% homologues with the sequence in *Medicago truncatula, Gossypium raimondii, Brassica rapa, Brassica napus, Cucumis sativus, Populus trichocarpa, Nicotiana tabacum, Glycine max, Oryza sativa, Hordeum vulgare, Vitis vinifera, Physcomitrium patens, Zea mays, Vitis vinifera, Solanum lycopersicum, Solanum tuberosum, Panicum virgatum, Sorghum bicolor, Triticum aestivum, Spinacia oleracea*.

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