

Anti-Serine/threonine-protein kinase STN8, chloroplastic antibody

Catalog: PHY2833A

Product Information

Description:	Rabbit polyclonal antibody
Background:	STN8 is specific in phosphorylation of N-terminal threonine residues in D1, D2 and CP43 proteins, and Thr-4 in PsbH protein of photosystem II.
Synonyms:	STN8, STATE TRANSITION 8
Immunogen:	KLH-conjugated synthetic peptide (19 aa from C terminal section) derived from <i>Arabidopsis thaliana</i> STN8 (AT5G01920).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Immunogen affinity purified
Reconstitution:	Reconstitution with 150 µl of sterile 1XPBS (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".
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:	55 / 45 kDa
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in <i>Medicago truncatula</i> , <i>Brassica napus</i> , <i>Glycine max</i> , <i>Gossypium raimondii</i> , <i>Brassica rapa</i> , and 80-99% homologues with the sequence in <i>Zea mays</i> , <i>Panicum virgatum</i> , <i>Triticum aestivum</i> , <i>Hordeum vulgare</i> , <i>Oryza</i>

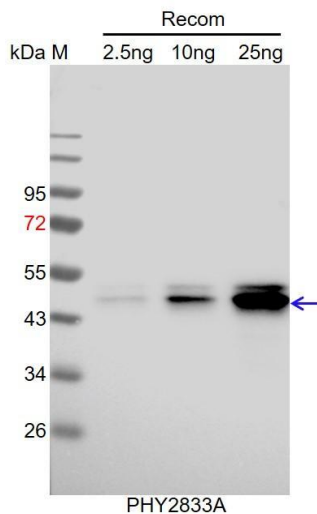
Research Use Only

sativa, *Sorghum bicolor*, *Setaria viridis*, *Vitis vinifera*, *Spinacia oleracea*, *Cucumis sativus*, *Populus trichocarpa*, *Solanum tuberosum*, *Solanum lycopersicum*, *Nicotiana tabacum*.

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

Application Example

Example 1



Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 44 kDa.

Electrophoresis: 12% SDS-PAGE

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

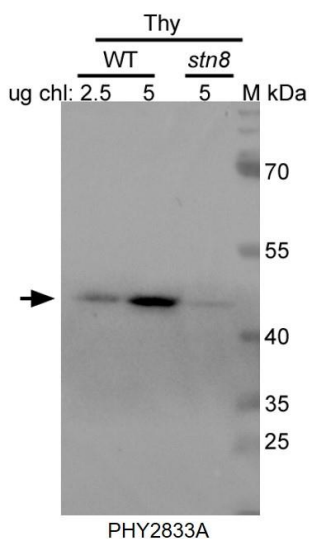
Blocking: 5% skim milk at RT or 4°C for 1 h.

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.

Example 2



Thy-WT: thylakoid membrane proteins from WT of *Arabidopsis thaliana* leaf containing 2.5 µg, and 5 µg of chlorophyll, respectively.

Thy-*stn8*: thylakoid membrane proteins from *stn8* mutant of *Arabidopsis thaliana* leaf containing 5 µg of chlorophyll.

Electrophoresis: 12.5% SDS-Urea-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.