

Anti-Chloroplastic DegP-type serine protease 1 antibody

Catalog: PHY0146A

Product Information

Description: Rabbit polyclonal antibody

Background: Deg1 is a nuclear gene encoding chloroplast-targeted protease that can

degrade two lumenal proteins, plastocyanin and OE33, suggesting a role as a

general-purpose protease in the thylakoid lumen. It is involved in the

degradation of D1 protein of PS II, hence participating in the repair of PS II

damages caused by photoinhibition.

Synonyms: Deg1, DEG1, DEGP PROTEASE 1, DEGP1, DEGRADATION OF

PERIPLASMIC PROTEINS 1

Immunogen: KLH-conjugated synthetic peptide (14 aa from Central section) derived from

Arabidopsis thaliana Deg1 (AT3G27925).

Form: Lyophilized

Quantity: 150 μg

Purification: Immunogen affinity purified

Reconstitution: 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".

Stability &Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

Storage: 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: 47 / 36 kDa



Confirmed Reactivity: Arabidopsis thaliana

Predicted Reactivity: Among species analyzed, the sequence of the synthetic peptide used

for immunization is 100% homologues with the sequence in *Vitis vinifera*, *Spinacia oleracea*, *Zea mays*, *Setaria viridis*, Glycine max, *Brassica rapa*, *Cucumis sativus*, Panicum virgatum, *Oryza sativa*, *Brassica napus*, *Chlamydomonas reinhardtii*, Gossypium raimondii, Sorghum bicolor, *Medicago truncatula*, *Nicotiana tabacum*, *Solanum tuberosum*, *Solanum lycopersicum*, *Populus trichocarpa*, *Hordeum*

vulgare, and 80-99% homologues with the sequence in

Physcomitrium patens.

For more species homologues information, please contact tech

support at tech@phytoab.com.

Application Example

Chl: 80 µg total chloroplast protein from Arabidopsis thaliana.

Electrophoresis: 15% SDS-PAGE

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

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

Primary antibody: 1:2000 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.