

Anti-ATP sulfurylase 1/2, chloroplastic antibody

Catalog: PHY2849A

Product Information

Description: Rabbit polyclonal antibody

Background: Plants assimilate inorganic sulfate into sulfur-containing vital metabolites. ATP

sulfurylase (ATPS) is the enzyme catalyzing the key entry step of the sulfate

assimilation pathway in both plastids and cytosol in plants. Arabidopsis

thaliana has four ATPS: ATPS1 (AT3G22890), ATPS2 (AT1G19920), ATPS3 (A

AT4G14680), and ATPS4 (AT5G43780).

Synonyms: APS1/2, ATP SULFURYLASE 1/2, ATPS1/2

Immunogen: KLH-conjugated synthetic peptide (18 aa from C terminal section) derived from

Arabidopsis thaliana APS1 (AT3G22890), APS2 (AT1G19920).

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: 51 / 45 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 Brassica

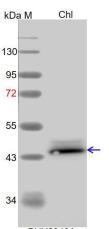


napus, Brassica rapa, Medicago truncatula, Panicum virgatum,
Gossypium raimondii, Glycine max, Zea mays, Sorghum bicolor,
Nicotiana tabacum, Physcomitrium patens, Cucumis sativus, Populus
trichocarpa, Gossypium raimondii, Hordeum vulgare, Setaria viridis,
Triticum aestivum, Oryza sativa, Spinacia oleracea, Solanum
tuberosum, Vitis vinifera, Solanum lycopersicum.
The sequence of the synthetic peptide used for immunization is 94%

The sequence of the synthetic peptide used for immunization is 94% homologues with the sequence in APS3 (AT4G14680) and APS4(AT 5G43780).

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

Application Example



7.5 µg total chloroplast protein from *Arabidopsis thaliana*.

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: 1:2000 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.