Anti-Gamma subunit of ATP synthase, N-terminal antibody

Catalog: PHY0161

Product Information

Description: Rabbit polyclonal antibody

Background: *Arabidopsis thaliana* has two genes (*atpC1, atpC2*) coding for gamma subunits of chloroplast ATP synthase. The *atpC1* and *atpC2* were cloned and sequenced.

Synonyms: AtpC, F-ATPase gamma subunit, ATP synthase gamma, chloroplastic

Immunogen: KLH-conjugated synthetic peptide of AtpC derived from *Arabidopsis thaliana* AT4G04640.

Form: Lyophilized

Quantity: 150 µg

Purification: Protein A 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 & 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: 41 / 36 kDa

Confirmed Reactivity: *Arabidopsis thaliana*

Predicted Reactivity: Among 25 analyzed species, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in...
Brassica rapa subsp. Chinensis, and 80-99% homologues with the sequence in Medicago truncatula, Populus trichocarpa, Glycine max, Zea mays, Chlamydomonas reinhardtii, Synechocystis sp. PCC 6803.

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

**Application Example**

1-3 is thylakoid membrane protein from *Arabidopsis thaliana* leaf containing 0.1 μg, 0.25 μg, and 0.5 μg of chlorophyll, respectively.

4 is thylakoid membrane protein from ATP synthase mutant of *Arabidopsis thaliana* leaf containing 0.5 μg of chlorophyll.

**Electrophoresis:** 15% 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:** 1:20000 dilution using Goat Anti-Rabbit IgG H&L (HRP) (Cat# PHY6000).

**Detection:** using chemiluminescence substrate and image were captured with CCD camera.