

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

Catalog: PHY0161

Product Information

Description:	Rabbit polyclonal antibody
Background:	<i>Arabidopsis thaliana</i> has two genes (<i>atpC1</i> , <i>atpC2</i>) coding for gamma subunits of chloroplast ATP synthase. The <i>atpC1</i> and <i>atpC2</i> were cloned and sequenced.
Synonyms:	AtpC, F-ATPase gamma subunit, ATP synthase gamma, chloroplastic
Immunogen:	KLH-conjugated synthetic peptide of AtpC derived from <i>Arabidopsis thaliana</i> 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

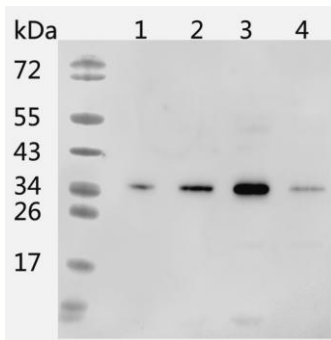
Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected/apparent MW:	41 / 36 kDa
Confirmed Reactivity:	<i>Arabidopsis thaliana</i>
Predicted Reactivity:	Among 25 analyzed species, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in

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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.