

Anti-Chloroplast ATP synthase subunit AtpD antibody

Catalog: PHY0207S

Product Information

Description:	Rabbit polyclonal antibody
Background:	Chloroplast ATP synthase (CF ₁ F ₀ ATP synthase) produces ATP from ADP in the presence of a proton gradient across the membrane which is generated by photosynthetic electron transport chain. F-type ATPases consist of two structural domains. While F ₁ -containing the extramembraneous catalytic core, F ₀ -containing the membrane proton channel, linked together by a central stalk and a peripheral stalk. During catalysis, ATP synthesis in the catalytic domain of F ₁ is coupled via a rotary mechanism of the central stalk subunits to proton translocation. AtpD is a subunit of chloroplast ATP synthase.
Synonyms:	AtpD, F-type H ⁺ -transporting ATPase subunit delta, ATP synthase F(1) sector subunit delta, F-type ATPase subunit delta
Immunogen:	KLH-conjugated synthetic peptide (15 aa from central section) derived from Arabidopsis thaliana AtpD (AT4G09650).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Serum Peptide affinity form antibody available upon request at info@phytoab.com .
Reconstitution:	Reconstitution with 150 µl of sterile water. "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
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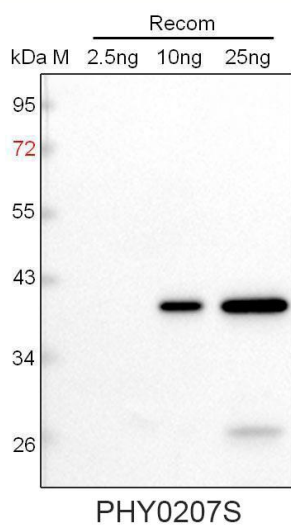
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Expected / apparent MW: 26/20 kDa

Predicted Reactivity: Among species analyzed, the sequence of the synthetic peptide used for immunization is 87-93% homologues with the sequence in *Brassica napus*, *Brassica rapa*, *Populus trichocarpa*.
For more species homologues information, please contact tech support at tech@phytoab.com.

Application Example



Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 41 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.