

Anti-CreATPB, chloroplastic antibody

Catalog: PHY5725S

Product Information

Description:	Rabbit polyclonal antibody
Background:	Chloroplast ATP synthase is an F-type rotary ATP synthase located in the thylakoid membrane. It acts as a molecular nanomotor, utilizing the proton motive force generated by photosynthesis to drive ATP synthesis from ADP and inorganic phosphate. CreATPB is the subunit beta of the chloroplast ATP synthase in <i>Chlamydomonas reinhardtii</i> .
Synonyms:	ATPB, atpB
Immunogen:	KLH-conjugated synthetic peptide (15 aa from central section) derived from <i>Chlamydomonas reinhardtii</i> CreATPB (CreCp.g802323).
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

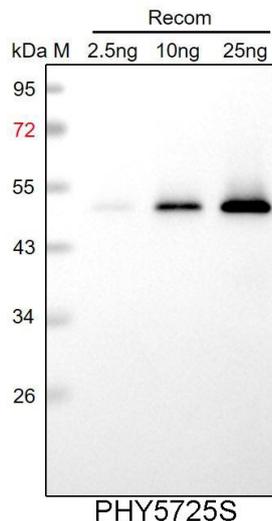
Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	52 kDa
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used

Research Use Only

for immunization is 100% homologues with the sequence in *Zea mays*, *Medicago truncatula*, *Triticum aestivum*, *Oryza sativa*, *Triticum aestivum*, *Setaria viridis*, *Hordeum vulgare*, *Sorghum bicolor*, *Panicum virgatum*, *Leymus chinensis*, *Physcomitrium patens*, and 93% homologues with the sequence in *Vitis vinifera*, *Brassica napus*, *Gossypium raimondii*, *Arabidopsis thaliana*, *Brassica rapa*, *Glycine max*, *Solanum tuberosum*, *Solanum lycopersicum*, *Populus trichocarpa*, *Synechocystis sp. PCC 6803*, *Spinacia oleracea*, *Cucumis sativus*, *Synechococcus elongatus PCC 7942*.

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 50 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.