# Anti-ATPB antibody

**Catalog:** PHY5725S

## Product Information

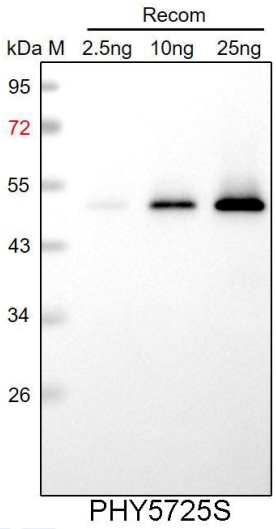
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| **Description:** | Rabbit polyclonal antibody |
| **Background:** | Chloroplast ATP synthase is an F-type rotary ATP synthase located in the thylakoid membrane. It acts as a molecular nanomotor, utilizing the proton motive force generated by photosynthesis to drive ATP synthesis from ADP and inorganic phosphate. CreATPB is the subunit beta of the chloroplast ATP synthase in *Chlamydomonas reinhardtii*. |
| **Synonyms:** | ATPB, atpB |
| **Immunogen:** | KLH-conjugated synthetic peptide (15 aa from central section) derived from *Chlamydomonas reinhardtii* CreATPB (CreCp.g802323). |
| **Form:** | Lyophilized |
| **Quantity:** | 150 µg |
| **Purification:** | Serum<br>Peptide affinity form antibody available upon request at info@phytoab.com. |
| **Reconstitution:** | Reconstitution with 150 µl of sterile water.<br>"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.<br>12 months from date of receipt, -20 to -70℃ as supplied.<br>6 months, -20 to -70℃ under sterile conditions after reconstitution.<br>1 month, 2 to 8℃ under sterile conditions after reconstitution. |
| **Shipping:** | The product is shipped at 4℃. Upon receipt, store it immediately at the temperature recommended above. |

## Application Information

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| **Recommended Dilution:** | Western Blot (1:1000-1:2000)<br>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 |

for immunization is 100% homologues with the sequence in *Zea mays, Triticum aestivum, Oryza sativa, Setaria viridis, Hordeum vulgare, Sorghum bicolor, Panicum virgatum, Physcomitrium patens*, *Synechocystis sp. PCC 7509,* Chlamydomonas reinhardtii , and 93% homologues with the sequence in *Medicago truncatula, Nicotiana tabacum, Vitis vinifera, Brassica napus, Arabidopsis thaliana, Brassica rapa, Glycine max, Solanum tuberosum, Spinacia oleracea*. 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℃ for 1 h.

**Primary antibody:** 1:1000 dilution overnight at 4℃.

**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.