

# Anti-RpoC1 antibody

Catalog: PHY0692S

## Product Information

|                                 |                                                                                                                                                                                                                                                                               |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description:</b>             | Rabbit polyclonal antibody                                                                                                                                                                                                                                                    |
| <b>Background:</b>              | RpoC1 (ATCG00180) is the $\beta'$ subunit of PEP, which is the plastid-encoded RNA polymerase. PEP is composed of four core subunits ( $\alpha$ , $\beta$ , $\beta'$ , $\beta''$ ) and a promoter recognition subunit ( $\sigma$ factor).                                     |
| <b>Synonyms:</b>                | RpoC1                                                                                                                                                                                                                                                                         |
| <b>Immunogen:</b>               | KLH-conjugated synthetic peptide (16 aa from central section) derived from <i>Arabidopsis thaliana</i> RpoC1 (ATCG00180).                                                                                                                                                     |
| <b>Form:</b>                    | Lyophilized                                                                                                                                                                                                                                                                   |
| <b>Quantity:</b>                | 150 $\mu$ g                                                                                                                                                                                                                                                                   |
| <b>Purification:</b>            | Serum<br>Peptide affinity form antibody available upon request at <a href="mailto:info@phytoab.com">info@phytoab.com</a> .                                                                                                                                                    |
| <b>Reconstitution:</b>          | Reconstitution with 150 $\mu$ l 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".                                                            |
| <b>Stability &amp; Storage:</b> | Use a manual defrost freezer and avoid repeated freeze-thaw cycles.<br>12 months from date of receipt, -20 to -70°C as supplied.<br>6 months, -20 to -70°C under sterile conditions after reconstitution.<br>1 month, 2 to 8°C under sterile conditions after reconstitution. |
| <b>Shipping:</b>                | The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.                                                                                                                                                                       |

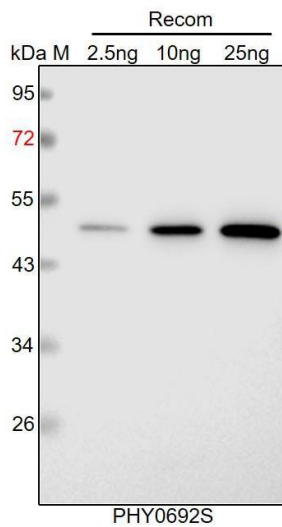
## Application Information

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|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Recommended Dilution:</b>   | Western Blot (1:1000-1:2000)<br>Note: Optimal dilutions/concentrations should be determined by the end user.                                                                                                                  |
| <b>Expected / apparent MW:</b> | 79 / 72 kDa                                                                                                                                                                                                                   |
| <b>Predicted Reactivity:</b>   | Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in <i>Solanum tuberosum</i> , <i>Brassica napus</i> , <i>Solanum lycopersicum</i> , <i>Nicotiana</i> |

Research Use Only

*tabacum*, *Glycine max*, *Cucumis sativus*, *Gossypium raimondii*, *Vitis vinifera*, *Brassica rapa*, *Medicago truncatula*, *Zea mays*, *Oryza sativa*, *Sorghum bicolor*, *Panicum virgatum*, *Triticum aestivum*, *Setaria viridis*, *Hordeum vulgare*, *Leymus chinensis*, *Spinacia oleracea*, and 88-94% homologues with the sequence in *Populus trichocarpa*, *Physcomitrium patens*, *Synechocystis*, *Chlamydomonas reinhardtii*. For more species homologues information, please contact tech support at [tech@phytoab.com](mailto: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 52 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.