

# Anti-OsPORA antibody

Catalog: PHY4709S

## Product Information

|                                 |                                                                                                                                                                                                                                                                                                                                          |
|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description:</b>             | Rabbit polyclonal antibody                                                                                                                                                                                                                                                                                                               |
| <b>Background:</b>              | OsPORA is a chloroplastic NADPH:protochlorophyllide oxidoreductase. It catalyzes the light-dependent reduction of protochlorophyllide to chlorophyllide, a key step in chlorophyll biosynthesis. It is essential for prolamellar body formation in etioplasts and is predominantly expressed in developing leaves under dark conditions. |
| <b>Synonyms:</b>                | OsPORA, PROTOCHLOROPHYLLIDE OXIDOREDUCTASE A                                                                                                                                                                                                                                                                                             |
| <b>Immunogen:</b>               | KLH-conjugated synthetic peptide (16 aa from C terminal section) derived from <i>Oryza sativa</i> OsPORA (Os04g0678700).                                                                                                                                                                                                                 |
| <b>Form:</b>                    | Lyophilized                                                                                                                                                                                                                                                                                                                              |
| <b>Quantity:</b>                | 150 µg                                                                                                                                                                                                                                                                                                                                   |
| <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 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".                                                                                                                            |
| <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> | 41 kDa                                                                                                       |
| <b>Predicted Reactivity:</b>   | Among species analyzed, the sequence of the synthetic peptide used                                           |

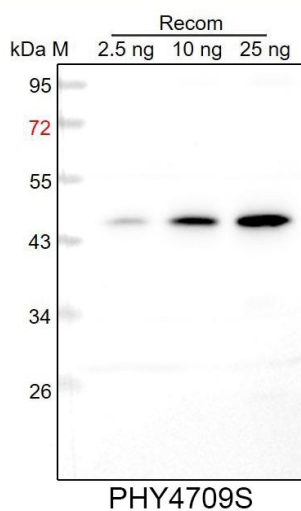
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for immunization is 100% homologues with the sequence in *Zea mays*, *Hordeum vulgare*, *Triticum aestivum*, *Panicum virgatum*, *Setaria viridis*, *Sorghum bicolor*, and 94% homologues with the sequence in *Cucumis sativus*, *Populus trichocarpa*, *Spinacia oleracea*, *Glycine max*, *Brassica napus*, *Arabidopsis thaliana*, *Brassica rapa*, *Medicago truncatula*.

The sequence of the synthetic peptide used for immunization is 94% homologues with the sequence in OsPORB (Os10g0496900).

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 45 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.