

# Anti-EXP3 antibody

Catalog: PHY8015S

## Product Information

|                                 |                                                                                                                                                                                                                                                                               |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description:</b>             | Rabbit polyclonal antibody                                                                                                                                                                                                                                                    |
| <b>Background:</b>              | EXP3 is an expansin protein that mediates cell wall loosening. It facilitates cell elongation by disrupting hydrogen bonds between cellulose microfibrils and matrix polymers, primarily expressed in rapidly expanding tissues like roots and hypocotyls.                    |
| <b>Synonyms:</b>                | EXP3, EXPA3, EXPANSIN3, ATHEXP ALPHA 1.9                                                                                                                                                                                                                                      |
| <b>Immunogen:</b>               | KLH-conjugated synthetic peptide (14 aa from C-terminal section) derived from <i>Arabidopsis thaliana</i> EXP3 (AT2G37640).                                                                                                                                                   |
| <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

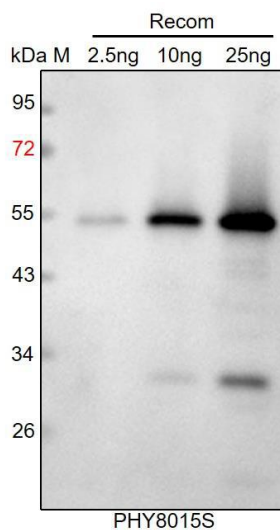
|                                |                                                                                                                                             |
|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| <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> | 28 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>Brassica</i> |

Research Use Only

*napus*, *Brassica rapa*, *Nicotiana tabacum*, *Glycine max*, and 80-99% homologues with the sequence in *Zea mays*, *Triticum aestivum*, *Hordeum vulgare*, *Solanum lycopersicum*, *Spinacia oleracea*, *Cucumis sativus*, *Populus trichocarpa*, *Medicago truncatula*, *Vitis vinifera*, *Oryza sativa*, *Gossypium raimondii*, *Sorghum bicolor*, *Panicum virgatum*, *Solanum tuberosum*.

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 55 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.