

# Anti-OsFTL1/2 antibody

Catalog: PHY4562A

## Product Information

|                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
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| <b>Description:</b>             | Rabbit polyclonal antibody                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Background:</b>              | OsFTL1 is a florigen-like protein that forms a florigen activation complex (FAC) with GF14c and OsFD1 to activate OsMADS14 and OsMADS15 expression, thereby promoting flowering under both short-day and long-day conditions. It localizes to the nucleus and cytoplasm, with predominant expression in the shoot base. OsFTL2 is a mobile florigen that moves from leaves to the shoot apical meristem (SAM) to induce flowering. It acts downstream of HD1 and EHD1 under short-day conditions and upstream of MADS14 and MADS15. It is expressed in the inner region of the SAM, stem, and leaf blade vascular tissues. |
| <b>Synonyms:</b>                | FTL1, FTL, FT-L1, OsFTL1, FTL2, FTL, FT-L2, OsFTL2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Immunogen:</b>               | KLH-conjugated synthetic peptide (16 aa from central section) derived from <i>Oryza sativa</i> OsFTL1/2 (Os06g0157700, Os01g0218500).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Form:</b>                    | Lyophilized                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Quantity:</b>                | 150 µg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Purification:</b>            | Immunogen affinity purified                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Reconstitution:</b>          | Reconstitution with 150 µl of sterile 1XPBS (PH=7.4) containing 30% glycerol.<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. |
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Research Use Only

**Expected / apparent MW:**

20 kDa

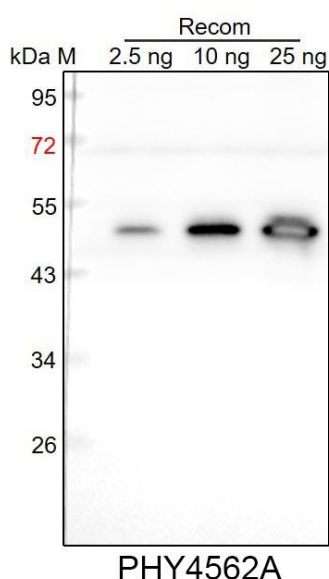
**Predicted Reactivity:**

Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Glycine max*, *Triticum aestivum*, *Zea mays*, *Panicum virgatum*, *Sorghum bicolor*, *Cucumis sativus*, *Setaria viridis*, *Solanum tuberosum*, *Nicotiana tabacum*, *Hordeum vulgare*, *Solanum lycopersicum*, *Gossypium raimondii*, and 80-99% homologues with the sequence in *Vitis vinifera*, *Medicago truncatula*, *Populus trichocarpa*.

The sequence of the synthetic peptide used for immunization is 94% (15/16) homologues with the sequence in Os06g0157500 and Os05g0518000.

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 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.