

# Anti-Os04g0447100/OsSPH antibody

Catalog: PHY4671S

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	OsSPH is a type-2 13-lipoxygenase (13-LOX). It is required for normal hull development by regulating fatty acid metabolism and lignin synthesis; loss of function causes a split-hull (sph) phenotype due to reduced lemma width and low lignin content, facilitating easy dehulling.
<b>Synonyms:</b>	SPH, OsLOX6, LOX6, LOX5, OsLOX5, SPLIT-HULL, lipoxygenase 6, split-hull
<b>Immunogen:</b>	KLH-conjugated synthetic peptide (16 aa from C terminal section) derived from <i>Oryza sativa</i> OsSPH (Os04g0447100).
<b>Form:</b>	Lyophilized
<b>Quantity:</b>	150 µg
<b>Purification:</b>	Serum
<b>Reconstitution:</b>	Peptide affinity form antibody available upon request at <a href="mailto:info@phytoab.com">info@phytoab.com</a> . Reconstitution with 150 µl of sterile water. "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. 12 months from date of receipt, -20 to -70°C as supplied. 6 months, -20 to -70°C under sterile conditions after reconstitution. 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

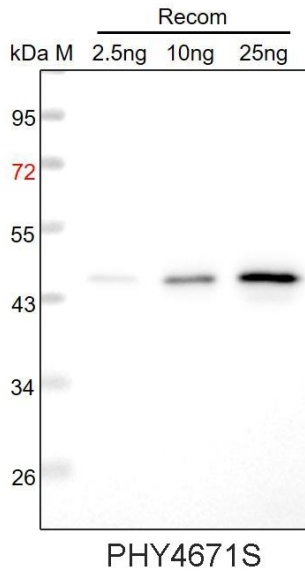
<b>Recommended Dilution:</b>	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
<b>Expected / apparent MW:</b>	100 kDa
<b>Predicted Reactivity:</b>	Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in <i>Panicum virgatum</i> , and 94% homologues with the sequence in <i>Zea mays</i> ,

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*Sorghum bicolor*, *Setaria viridis*.

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 46 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.