

Anti-OsPSY2 antibody

Catalog: PHY4706S

Product Information

Description:	Rabbit polyclonal antibody
Background:	OsPSY2 is a chloroplastic phytoene synthase that catalyzes the first committed step in carotenoid biosynthesis. It regulates root plasticity by integrating strigolactone (SL) and abscisic acid (ABA) signals to independently control aerenchyma formation and iron plaque deposition, respectively.
Synonyms:	OsPSY2, PHYTOENE SYNTHASE 2
Immunogen:	KLH-conjugated synthetic peptide (15 aa from central section) derived from <i>Oryza sativa</i> OsPSY2 (Os12g0626400).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Serum Peptide affinity form antibody available upon request at info@phytoab.com .
Reconstitution:	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".
Stability & Storage:	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.
Shipping:	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.

Application Information

Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	44 kDa
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used for immunization is 93% homologues with the sequence in <i>Panicum</i>

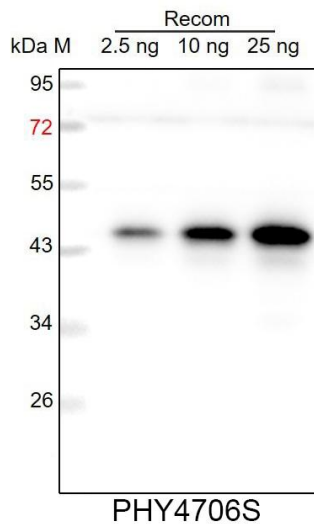
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virgatum, *Triticum aestivum*, *Hordeum vulgare*.

The sequence of the synthetic peptide used for immunization is 93% homologues with the sequence in OsPSY3 (Os09g0555500).

For more species homologues information, please contact tech support at 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.