

Anti-PDS3 antibody

Catalog: PHY7204A

Product Information

Description:	Rabbit polyclonal antibody
Background:	PDS3 is a phytoene desaturase, a key enzyme in the carotenoid biosynthesis pathway in <i>Arabidopsis thaliana</i> . It catalyzes the desaturation of phytoene to zeta-carotene, is localized to plastids (chloroplasts), and is essential for pigment production and plant development.
Synonyms:	PDS3, PDE226, PDS, PHYTOENE DESATURASE, PHYTOENE DESATURASE 3, PIGMENT DEFECTIVE 226
Immunogen:	KLH-conjugated synthetic peptide (15 aa from N-terminal section) derived from <i>Arabidopsis thaliana</i> PDS3 (AT4G14210).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Immunogen affinity purified
Reconstitution:	Reconstitution with 150 µl of sterile 1XPBS (PH=7.4) containing 30% glycerol. "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

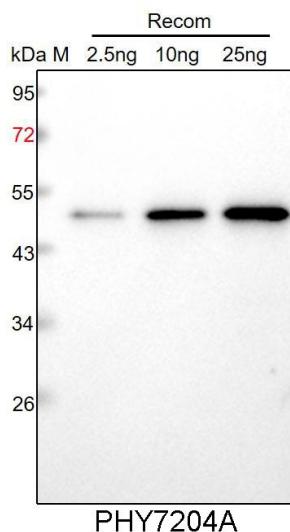
Recommended Dilution:	Western Blot (1:1000-1:2000)
	Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	63 kDa
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in <i>Brassica</i>

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napus, Zea mays, Oryza sativa, Panicum virgatum, Vitis vinifera, Medicago truncatula, Triticum aestivum, Hordeum vulgare, Setaria viridis, Sorghum bicolor, Spinacia oleracea, Brassica rapa, Chlamydomonas reinhardtii, Synechocystis sp. PCC 6803, Synechococcus elongatus PCC 7942, and 93% homologues with the sequence in Solanum tuberosum, Solanum lycopersicum, Populus trichocarpa, Nicotiana tabacum, Cucumis sativus, Gossypium raimondii, Glycine max, Physcomitrium patens.

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 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.

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