Anti-Arogenate dehydratase 3, chloroplastic, C-terminal antibody

Catalog: PHY7540S

Product Information

Description:	Rabbit polyclonal antibody
Background:	ADT3 is a plastid-localized arogenate dehydratase involved in phenylalanine biosynthesis. Not less than six genes encoding ADT were identified in the Arabidopsis genome: ADT1 [At1g11790]; ADT2 [At3g07630]; ADT3 [At2g27820]; ADT4 [At3g44720]; ADT5 [At5g22630]; and ADT6 [At1g08250].
Synonyms:	ADT3, PD1, AROGENATE DEHYDRATASE 3, PREPHENATE DEHYDRATASE 1
Immunogen:	KLH-conjugated synthetic peptide (15 aa from C terminal section) derived from *Arabidopsis thaliana* ADT3 (AT2G27820).
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℃ as supplied. 6 months, -20 to -70℃ under sterile conditions after reconstitution. 1 month, 2 to 8℃ under sterile conditions after reconstitution.
Shipping:	The product is shipped at 4℃. 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:	46 kDa

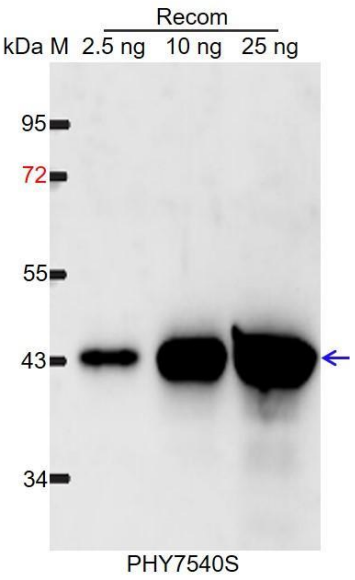
Predicted Reactivity:

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

The sequence of the synthetic peptide used for immunization is 87% (13 / 15) homologues with the sequence in ADT6 (AT1G08250).

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

Application Example



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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℃ for 1 h.

Primary antibody: 1:1000 dilution overnight at 4℃.

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.