Anti-Proline dehydrogenase 1, mitochondrial, C-terminal antibody

Catalog: PHY0969A

Product Information

Description:	Rabbit polyclonal antibody
Background:	Proline accumulation is one of the sensitive metabolic responses to extreme conditions; it is triggered by salinity or drought and is regulated by light. P5CS1 (AT2G39800) and PDH1 (AT3G30775) is essential for salt-induced proline accumulation. They control proline biosynthetic and catabolic pathways, respectively.
Synonyms:	ERD5, ARABIDOPSIS THALIANA PROLINE OXIDASE, AT-POX, ATPDH, ATPOX, EARLY RESPONSIVE TO DEHYDRATION 5, PDH1, PRO1, PRODH, PROLINE DEHYDROGENASE, PROLINE DEHYDROGENASE 1
Immunogen:	KLH-conjugated synthetic peptide (14 aa from C terminal section) derived from *Arabidopsis thaliana* ERD5 (AT3G30775).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Immunogen affinity purified
Reconstitution:	Reconstitution with 150 µl of 0.01 M sterile PBS. "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:	55 kDa

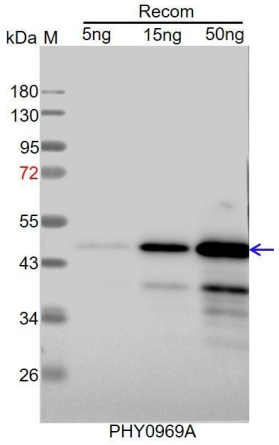
Predicted Reactivity:

Among species analyzed, the sequence of the synthetic peptide used for immunization is 80-99% homologues with the sequence in *Brassica napus*, *Brassica rapa.*

The sequence of the synthetic peptide used for immunization is 86% (12/14) homologues with the sequence in PDH2 (AT5G38710).

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

Application Example



Recom: 5 ng, 15 ng and 50 ng recombinant protein containing the peptide for immunization and having a molecular mass of 48 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: 1:2000 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.