Anti-Delta-1-pyrroline-5-carboxylate synthase A antibody

Catalog: PHY2123A

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:	P5CS1, ATP5CS, DELTA1-PYRROLINE-5-CARBOXYLATE SYNTHASE 1,
Immunogen:	KLH-conjugated synthetic peptide (16 aa from N terminal section) derived from *Arabidopsis thaliana* P5CS1 (AT2G39800).
Form:	Lyophilized
Quantity:	150 μg
Purification:	Immunogen Affinity Purified
Reconstitution:	Reconstitution with 150 μl of sterile 1×PBS (PH=7.4). "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:	78 kDa
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used

for immunization is 100% homologues with the sequence in *Brassica napus*, *Brassica rapa*, and 80-99% homologues with the sequence in *Triticum aestivum*, *Hordeum vulgare*, *Solanum tuberosum*, *Solanum lycopersicum*, *Gossypium raimondii*, *Populus trichocarpa*, *Zea mays*, *Oryza sativa*, *Nicotiana tabacum*, *Leymus chinensis*, *Panicum virgatum*, *Sorghum bicolor*, *Setaria viridis*.

The sequence of the synthetic peptide used for immunization is 88% (14 / 16) homologues with the sequence in P5CS2 (AT3G55610).

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