

Anti-Proline dehydrogenase 1, mitochondrial 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 (16 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 &	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
Storage:	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:	55 kDa

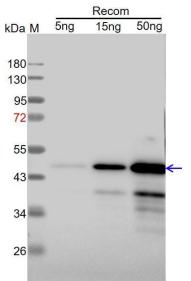


Predicted Reactivity:

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

For more species homologues information, please contact tech support at <u>tech@phytoab.com</u>.

Application Example



PHY0969A

Recom: 5 ng, 15 ng and 50 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: 1:2000 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.