

Anti-Nitrate reductase [NADH] 2 antibody

Catalog: PHY1433A

Product Information

Description:	Rabbit polyclonal antibody
Background:	Nitrate reductase is a key enzyme involved in the first step of nitrate
	assimilation in plants, fungi and bacteria. In Arabidopsis, nitrate reductases are
	including NIA1 (AT1G77760) and NIA2 (AT1G37130), they determine NO
	production in plants and are critical to abscisic acid (ABA)-induced stomatal
	closure.
Synonyms:	NR2, NIA2, ARABIDOPSIS NITRATE REDUCTASE 2, ATNR2, B29, CHL3,
	CHLORATE RESISTANT 3, NIA2-1, NITRATE REDUCTASE, NITRATE
	REDUCTASE 2, NR
Immunogen:	KLH-conjugated synthetic peptide (13 aa from Central section) derived from
	Arabidopsis thaliana NR2 (AT1G37130).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Immunogen affinity purified
Reconstitution:	Reconstitution with 150 µl of sterile 1XPBS (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 &	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.
Reference:	Shane C. HARDIN, et al., Biochem. J. (2009) 422, 305–312.

Application Information

Recommended Dilution:	Western Blot (1:1000-1:2000)
	Note: Optimal dilutions/concentrations should be determined by the
	end user.
Expected / apparent MW:	103 kDa

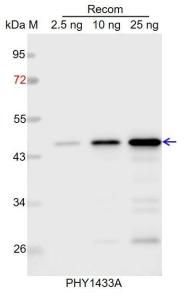


Predicted Reactivity:

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

The sequence of the synthetic peptide used for immunization is 85% (11 / 13) homologues with the sequence in NR1 (AT1G77760). 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 45 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.

Research Use Only