Anti-DELLA protein RGA1/2 antibody

Catalog: PHY0243A

Product Information

Description:	Rabbit polyclonal antibody
Background:	RGA1 (AT2G01570) and RGA2 (AT1G14920) are DELLA proteins in *Arabidopsis thaliana*, key repressors of gibberellin signaling. They inhibit growth and delay flowering. Degradation of these repressors upon GA perception promotes stem elongation and floral transition.
Synonyms:	RGA1/2, REPRESSOR OF GA
Immunogen:	KLH-conjugated synthetic peptide (16 aa from C terminal section) derived from *Arabidopsis thaliana* RGA 1(AT2G01570) and RGA 2 (AT1G14920).
Form:	Lyophilized
Quantity:	150 µg
Purification:	Immunogen affinity purified
Reconstitution:	Reconstitution with 150 µl of sterile 1XPBS (PH=7.4) containing 30% glycerol. "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

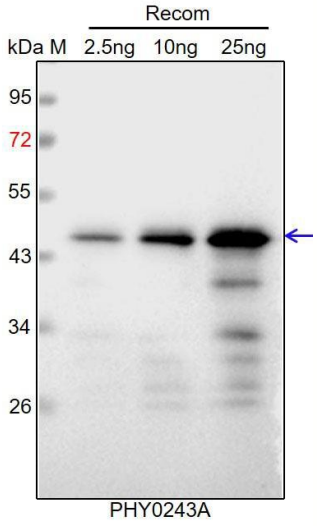
Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	64 kDa (AT2G01570), 59 kDa (AT1G14920)
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in *Gossypium raimondii, Populus trichocarpa, Vitis vinifera, Brassica*

rapa, Brassica napus, Medicago truncatula, and 80-99% homologues with the sequence in *Triticum aestivum, Oryza sativa, Zea mays, Sorghum bicolor, Setaria viridis, Panicum virgatum, Hordeum vulgare, Nicotiana tabacum, Cucumis sativus, Glycine max*.

The sequence of the synthetic peptide used for immunization is 94% homologues with the sequence in RGL1 (AT1G66350); 81% homologues with the sequence in RGL2 (AT3G03450), RGL3 (AT5G17490).

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℃ 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.