Anti-Calcium-dependent protein kinase 11 antibody

Catalog: PHY1497A

Product Information

Description:	Rabbit polyclonal antibody
Background:	CPK11 is one of calcium-dependent protein kinases, which are the best-characterized calcium sensors in plants. CDPKs regulate many aspects of plant growth and development as well as plant adaptation to biotic andabiotic stresses. CPK11 may play a role in signal transduction pathways that involve calcium as a second messenger. And it is the regulator of the calcium-mediated abscisic acid (ABA) signaling pathway.
Synonyms:	CPK11, ATCDPK2, ATCPK11, CALCIUM-DEPENDENT PROTEIN KINASE 2, CDPK2
Immunogen:	KLH-conjugated synthetic peptide (15 aa from C terminal section) derived from *Arabidopsis thaliana* CPK11 (AT1G35670).
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:	56 kDa

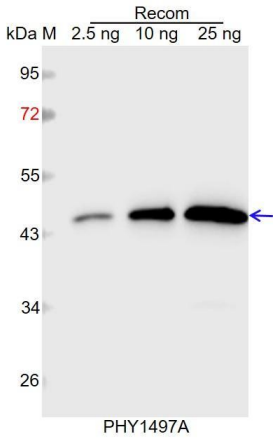
Predicted Reactivity:

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 *Glycine max*, *Oryza sativa*, *Hordeum vulgare*, *Sorghum bicolor*, *Triticum aestivum*, *Setaria viridis*, *Zea mays*, *Panicum virgatum*, *Medicago truncatula*, *Vitis vinifera*, *Populus trichocarpa*, *Solanum tuberosum*, *Spinacia oleracea*, *Solanum lycopersicum*, *Nicotiana tabacum*, *Gossypium raimondii*, *Hordeum vulgare.*

The sequence of the synthetic peptide used for immunization is 93% homologues with the sequence in CPK4 (AT4G09570), and 80% homologues with the sequence in CPK12 (AT5G23580).

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 46 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.