

Anti-Calcium-dependent protein kinase 4 antibody

Catalog: PHY3218A

Product Information

Description:	Rabbit polyclonal antibody
Background:	CPK4 is a member of Calcium Dependent Protein Kinase (CDPK) gene family. It is a positive regulator of ABA signaling.
Synonyms:	CPK4, ATCPK4, CALCIUM-DEPENDENT PROTEIN KINASE 4
Immunogen:	KLH-conjugated synthetic peptide (15 aa from central section) derived from <i>Arabidopsis thaliana</i> CPK4 (AT4G09570).
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°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.

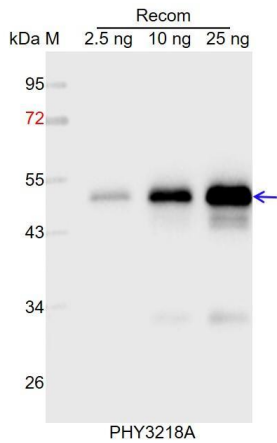
Application Information

Recommended Dilution:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected / apparent MW:	56 kDa
Predicted Reactivity:	Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in <i>Brassica rapa</i> , <i>Brassica napus</i> , and 80-99% homologues with the sequence in <i>Glycine max</i> , <i>Vitis vinifera</i> , <i>Populus trichocarpa</i> , <i>Medicago truncatula</i> . The sequence of the synthetic peptide used for immunization is 93% (14/15) homologues with the sequence in CDPK2 (AT1G35670).

Research Use Only

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 52 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.