

Anti-Calcium-dependent protein kinase 1 antibody

Catalog: PHY1453S

Product Information

Description:	Rabbit polyclonal antibody
Background:	Calcium-dependent protein kinases (CPKs or CDPKs) are a particular class of protein kinases which are regulated not only by calcium but also by specific phospho-lipids and autophosphorylation. In <i>Arabidopsis</i> , CPKs are including 34 CPK proteins. CPK1 may play a role in signal transduction pathways that involve calcium as a second messenger. And it phosphorylates the Ca ²⁺ -ATPase ACA2 resulting in the inhibition of its calcium activation.
Synonyms:	CPK1, ATCPK1, CALCIUM DEPENDENT PROTEIN KINASE 1
Immunogen:	KLH-conjugated synthetic peptide of CPK1 protein derived from <i>Arabidopsis thaliana</i> AT5G04870.
Form:	Lyophilized
Quantity:	150 µg
Purification:	Serum Peptide affinity form antibody available upon request at info@phytoab.com .
Reconstitution:	Reconstitution with 150µl of sterile water. "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.
Reference:	Antje Heese, et al., PNAS, July 17, 2007, vol. 104, no. 29, 12217–12222.

Application Information

Applications:	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the end user.
Expected Results:	68 kDa

Research Use Only

Confirmed Reactivity:

Arabidopsis thaliana

Predicted Reactivity:

For more species homologues information, please contact tech support at tech@phytoab.com.