# Anti-Cyclin-dependent kinase D-2 antibody

**Catalog:** PHY1423S

## Product Information

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| **Description:** | Rabbit polyclonal antibody |
| **Background:** | Cyclin-dependent kinase D-2 forms a stable complex with cyclin CYCH1-1 that phosphorylates CDK2 and the C-terminal domain (CTD) of the large subunit of RNA polymerase II. In Arabidopsis, there is three CDKDs: CDKD;1 ( AT1G73690), CDKD;2 (AT1G66750), CDKD;3 (AT1G18040). |
| **Synonyms:** | CAK4At, AT;CDKD;2, CAK4, CAK4AT, CDK-ACTIVATING KINASE 4, CDKD1;2, CDKD;2, CYCLIN-DEPENDENT KINASE D1;2 |
| **Immunogen:** | KLH-conjugated synthetic peptide (10 aa from C terminal section) protein derived from *Arabidopsis thaliana* CAK4At (AT1G66750). |
| **Form:** | Lyophilized |
| **Quantity:** | 150 µg |
| **Purification:** | Serum<br>Peptide affinity form antibody available upon request at info@phytoab.com. |
| **Reconstitution:** | Reconstitution with 150 µl of sterile water.<br>"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.<br>12 months from date of receipt, -20 to -70℃ as supplied.<br>6 months, -20 to -70℃ under sterile conditions after reconstitution.<br>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

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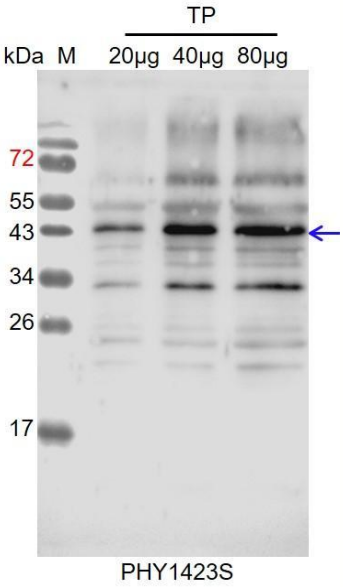
| **Recommended Dilution:** | Western Blot (1:1000-1:2000)<br>Note: Optimal dilutions/concentrations should be determined by the end user. |
| **Expected / apparent MW:** | 39 / 45 kDa |
| **Confirmed Reactivity:** | *Arabidopsis thaliana* |

**Predicted Reactivity:** Among species analyzed, the sequence of the synthetic peptide used for immunization is 80-99% homologues with the sequence in *Brassica rapa*, *Brassica napus*.

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

## Application Example




TP: 20 μg, 40 μg and 80 μg total protein from *Arabidopsis thaliana*, respectively.

**Electrophoresis:** 15% SDS-Urea-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.