

# Anti-Potassium channel AKT1 antibody

Catalog: PHY1332A

## Product Information

<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	In Arabidopsis, the Shaker family comprises nine members, which can be segregated into five phylogenetic groups. Group I (KAT1 (AT5G46240) and KAT2 (AT4G18290)), group II (AKT1 (AT2G26650) and AKT5 (AT4G32500)) and group III (AKT2 (AT4G22200)) can produce homotetrameric hyperpolarization-activated K <sup>+</sup> channels when expressed alone in heterologous expression systems. In the same conditions, group V (GORK (AT5G37500), and SKOR (AT3G02850)) can produce homotetrameric depolarization-activated K <sup>+</sup> channels. AtKC1, the single member of group IV in Arabidopsis, contributes to the inward K <sup>+</sup> conductance, probably in association with AKT1 within hetero-meric channels.
<b>Synonyms:</b>	AKT1, ATAKT1, K <sup>+</sup> TRANSPORTER 1, KT1
<b>Immunogen:</b>	KLH-conjugated synthetic peptide (14 aa from C terminal section) derived from <i>Arabidopsis thaliana</i> AKT1 (AT2G26650).
<b>Form:</b>	Lyophilized
<b>Quantity:</b>	150 µg
<b>Purification:</b>	Immunogen affinity purified
<b>Reconstitution:</b>	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".
<b>Stability &amp; Storage:</b>	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.
<b>Shipping:</b>	The product is shipped at 4°C. Upon receipt, store it immediately at the temperature recommended above.

## Application Information

<b>Recommended Dilution:</b>	Western Blot (1:1000-1:2000) Note: Optimal dilutions/concentrations should be determined by the
------------------------------	--

Research Use Only

end user.

**Expected / apparent MW:**

97 kDa

**Confirmed Reactivity:**

Coming soon

**Predicted Reactivity:**

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

For more species homologues information, please contact tech support at [tech@phytoab.com](mailto:tech@phytoab.com).