

# Anti-Potassium channel AKT1 antibody

Catalog: PHY0195S

## Product Information

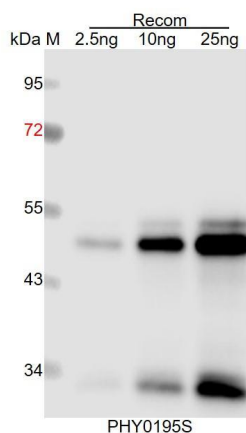
<b>Description:</b>	Rabbit polyclonal antibody
<b>Background:</b>	In Arabidopsis, the Shaker family comprises nine members, which can be segregated into five phylogenetic groups. Group I (KAT1 (AT5G46240) and KAT2 (AT4G18290)), group II (AKT1 (AT2G26650) and AKT5 (AT4G32500)) and group III (AKT2 (AT4G22200)) 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 (16 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>	Serum Peptide affinity form antibody available upon request at <a href="mailto:info@phytoab.com">info@phytoab.com</a> .
<b>Reconstitution:</b>	Reconstitution with 150 µl 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".
<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

Research Use Only

<b>Recommended Dilution:</b>	Western Blot (1:1000-1:2000)
	Note: Optimal dilutions/concentrations should be determined by the end user.
<b>Expected / apparent MW:</b>	97 kDa
<b>Predicted Reactivity:</b>	<p>Among species analyzed, the sequence of the synthetic peptide used for immunization is 100% homologues with the sequence in <i>Nicotiana tabacum</i>, and 80-99% homologues with the sequence in <i>Vitis vinifera</i>, <i>Solanum tuberosum</i>, <i>Solanum lycopersicum</i>, <i>Gossypium raimondii</i>, <i>Populus trichocarpa</i>, <i>Cucumis sativus</i>, <i>Spinacia oleracea</i>, <i>Panicum virgatum</i>, <i>Oryza sativa</i>, <i>Hordeum vulgare</i>, <i>Triticum aestivum</i>, <i>Hordeum vulgare</i>, <i>Brassica napus</i>, <i>Brassica rapa</i>.</p> <p>For more species homologues information, please contact tech support at <a href="mailto:tech@phytoab.com">tech@phytoab.com</a>.</p>

## Application Example



Recom: 2.5 ng, 10 ng and 25 ng recombinant protein containing the peptide for immunization and having a molecular mass of 50 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.