

Product no **AS09 516****AKT1 | Potassium channel AKT1****Product information**

<b>Immunogen</b>	KLH-conjugated peptide derived from <i>Arabidopsis thaliana</i> AKT1 <a href="#">Q38998</a> , <a href="#">At2g26650</a>
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Immunogen affinity purified serum in PBS pH 7.4.
<b>Format</b>	Lyophilized
<b>Quantity</b>	200 µg
<b>Reconstitution</b>	For reconstitution add 100 µl of sterile water
<b>Storage</b>	Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to the cap or sides of the tube.
<b>Additional information</b>	For detection images please, refer to the publication belowAntibody detects native and recombinant AKT1

**Application information**

<b>Recommended dilution</b>	1 : 50 with 125I (WB)
<b>Expected   apparent MW</b>	96.9 kDa
<b>Confirmed reactivity</b>	<i>Arabidopsis thaliana</i>
<b>Predicted reactivity</b>	<i>Arabidopsis thaliana</i>
<b>Not reactive in</b>	No confirmed exceptions from predicted reactivity are currently known
<b>Additional information</b>	In the work of Honsbein et al, 125I has been used for detection of KC1 since this was the only way to get enough signal after 2-phase partitioning, ECL+ has been used with the protein after expression in Sf9 insect cells (1: 1000 primary antibody dilution) and in yeast with no problem (single band detected), but these are relatively high expression systems, In native plant material ion channels are expressed in ridiculously small quantities (a few hundred proteins per cell)
<b>Selected references</b>	<a href="#">Safarian</a> et al. (2015). Lost in traffic? The K <sup>+</sup> channel of lily pollen, LilKT1, is detected at the endomembranes inside yeast cells, tobacco leaves and lily pollen. <i>Front. Plant Sci.</i>   doi: 10.3389/fpls.2015.00047. <a href="#">Honsbein</a> et al. (2009). A tripartite SNARE-K <sup>+</sup> channel complex mediates in channel-dependent K <sup>+</sup> nutrition in <i>Arabidopsis</i> . <i>The Plant Cell</i> 21:2859-2877.