

Product no **AS11 1628****HSP18,5 | class IV heat shock protein****Product information**

<b>Immunogen</b>	Recombinat Arabidopsis thaliana HSP18.5, expressed in <i>E.coli</i> , UniProt: <a href="#">Q64564</a> , TAIR: <a href="#">AT2G19310</a>
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Serum
<b>Format</b>	Lyophilized
<b>Quantity</b>	200 µl
<b>Reconstitution</b>	For reconstitution add 200 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>	As hsp18,5 is a low abundance protein, please, make sure that the plants are heated to the right temperature, Normally I heat stress the seedling on a sealed agar plate for 2 hours, This assures that the humidity around the plant is very high, Low humidity can allow the plant to cool down through transpiration, If a plant is in soil you can keep the leaf or even a whole plant over a wet filter paper and seal the plate very well during the treatment, Heat stressing plants in microphage tubes does not work that well

**Application information**

<b>Recommended dilution</b>	1 : 1000 (WB)
<b>Expected   apparent MW</b>	18,5 kDa
<b>Confirmed reactivity</b>	<i>Arabidopsis thaliana</i> , <i>Hordeum vulgare</i>
<b>Predicted reactivity</b>	<i>Glycne max</i> , <i>Medicago truncatula</i> , <i>Medicago sativa</i> , <i>Pisum sativum</i> , <i>Ricinus communis</i> , <i>Rosa chinensis</i> , <i>Zea mays</i> Species of your interest not listed? <a href="#">Contact us</a>
<b>Not reactive in</b>	<i>Prosopis cineraria</i>
<b>Additional information</b>	Hsp 18.5 is a low abundance protein and estimated concentration of this protein in total cell extract is ca. 0.007-0.01 %. Therefore to be able to visualize this protein the load per well needs to be at least 20 µg of heat shocked total protein/well. It is crucial to heat treat the plants at <b>38°C for 3 hours at high humidity</b> .  Please, note that longer transfer time might result in losing a signal for this protein.
<b>Selected references</b>	<a href="#">Sadura</a> et al. (2020). HSP Transcript and Protein Accumulation in Brassinosteroid Barley Mutants Acclimated to Low and High Temperatures . Int J Mol Sci . 2020 Mar 10;21(5):1889.doi: 10.3390/ijms21051889.