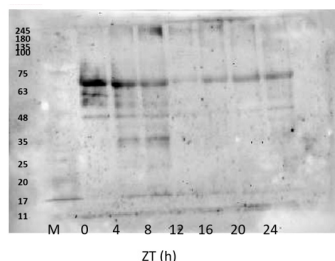


Product no **AS11 1631****GAI | DELLA protein GAI****Product information**

<b>Immunogen</b>	KLH-conjugated synthetic peptide, chosen from <i>Arabidopsis thaliana</i> GAI protein sequence UniProt: <a href="#">Q9LQT8</a> , TAIR: <a href="#">At1g14920</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>	50 µg
<b>Reconstitution</b>	For reconstitution add 25 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.

**Application information**

<b>Recommended dilution</b>	1 : 1000 (WB) on transfected <i>Arabidopsis thaliana</i> protoplasts
<b>Expected   apparent MW</b>	58,9 kDa
<b>Confirmed reactivity</b>	<i>Arabidopsis thaliana</i>
<b>Not reactive in</b>	<i>Brassica napus</i> , <i>Populus sp.</i> , <i>Solanum lycopersicum</i>
<b>Additional information</b>	Homogenization with thiourea and bead beater.  Protocol for protein extraction from seeds can be requested <a href="#">here</a> .  GAI protein is present in very low levels therefore specific material should be used for analysis as well as chemiluminescence detection reagent in extreme low femtogram range, as <a href="#">AgriseraECLSuperBright</a> .
<b>Selected references</b>	<a href="#">Gorshkova</a> & Pojdaeva (2021). Members of the Universal Stress Protein Family are Indirectly Involved in Gibberellin-Dependent Regulation of Germination and Post-Germination Growth. Russ J Plant Physiol 68, 451â??462 (2021). <a href="https://doi.org/10.1134/S1021443721030055">https://doi.org/10.1134/S1021443721030055</a> <a href="#">Shahnejat-Bushehri</a> et al. (2016). Arabidopsis NAC transcription factor JUB1 regulates GA/BR metabolism and signalling. NATURE PLANTS 2: Article number: 16013, 2016.

**Application example**

20 µg of total protein from *Arabidopsis thaliana* Columbia-0 plants grown on agar plates (MS 1 % sucrose) in LD conditions (16 h light, 8 h dark). Protein extraction was done using TRIZOL protocol on samples taken every 4 hours from the time point lights were switched on (Zeitgeber Time 0). Marker was 10 µl of BLUEstain™ Protein ladder, 11-254 kDa (GoldBio). Samples were separated on 12 % SDS-PAGE run at 200 V on Mini-Protean and blotted 1h to nitrocellulose. Blots were blocked with TBST (TBS+0.1 % Tween, 5 % non-fat, dry milk) for over night at 4°C with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1 000 for 2h at RT with agitation in TBS-T. The antibody solution was decanted and the blot was rinsed briefly twice, then washed once for 15 min and 3 times for 5 min in TBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, from Agrisera [AS09 602](#)) diluted to 1:100 000 in for 1h at RT with agitation. The blot was washed as above and developed with BIO-RAF Chemi-doc. Exposure time was 5 minutes.

Courtesy of Dr Federico Valverde, CSIC – University of Seville, Spain