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Agrisera AB | Box 57 | SE-91121 Vännäs | Sweden | +46 (0)935 33 000 | www.agrisera.com

Product no AS11 1631

Anti-GAI | DELLA protein GAI

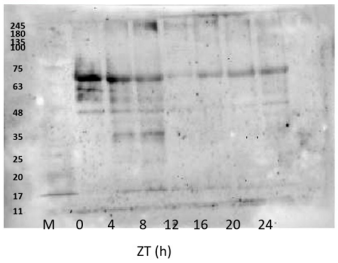
Product information

Immunogen	KLH-conugated synthetic peptide, chosen from *Arabidopsis thaliana* GAI protein sequence UniProt: Q9LQT8, TAIR: At1g14920
Host	Rabbit
Clonality	Polyclonal
Purity	Immunogen affinity purified serum in PBS pH 7.4.
Format	Lyophilized
Quantity	50 µg
Reconstitution	For reconstitution add 25 µl of sterile water
Storage	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

Recommended dilution	1 : 1000 (WB) on transfected *Arabidopsis thaliana* protoplasts
Expected | apparent MW	58.9 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Not reactive in	*Brassica napus, Populus sp., Solanum lycopersicum*
Additional information	Homogenization with thiourea and bead beater. Protocol for protein extraction from seeds can be requested here. 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 AgriseraECLSuperBright.
Selected references	Gorshkova & Pojidaeva (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). https://doi.org/10.1134/S1021443721030055 Shahnejat-Bushehri 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 1:00 000 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