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Product no AS11 1630

Anti-RGA | DELLA protein RGA

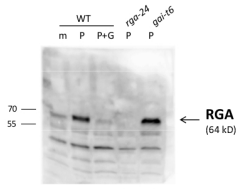
Product information

Immunogen	KLH-conjugated peptide chosen from RGA of *Arabidopsis thaliana* UniProt: Q9SLH3,TAIR: At2g01570
Host	Rabbit
Clonality	Polyclonal
Purity	Immunogen affinity purified serum in PBS pH 7.4.
Format	Lyophilized
Quantity	50 µg
Reconstitution	For reconstitution add 50 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)
Expected | apparent MW	64 | 64 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Arabidopsis thaliana*
Not reactive in	*Brassica napus, Populus sp., Rosa chinensis, Triticum aestivum*
Additional information	RGA protein is prone to degradation therefore caution has to be taken during protein extraction
Selected references	Dong et al. (2021). An HB40 - Jungbrunnen1 - GA 2-OXIDASE regulatory module for gibberellin homeostasis in Arabidopsis Yan et al. (2020). FKF1 F-box Protein Promotes Flowering in Part by Negatively Regulating DELLA Protein Stability Under Long-Day Photoperiod in Arabidopsis. J Integr Plant Biol . 2020 May 19. doi: 10.1111/jipb.12971. Ferrero et al. (2019). Class I TCP transcription factors target the gibberellin biosynthesis gene GA20ox1 and the growth promoting genes HBI1 and PRE6 during thermomorphogenic growth in Arabidopsis. Plant Cell Physiol. 2019 Jul 11. pii: pcz137. doi: 10.1093/pcp/pcz137. Lorrai et al. (2018). Abscisic acid inhibits hypocotyl elongation acting on gibberellins, DELLA proteins and auxin. AoB Plants. 2018 Oct 5;10(5):ply061. doi: 10.1093/aobpla/ply061. Chahtane et al. (2018). The plant pathogen Pseudomonas aeruginosa triggers a DELLA-dependent seed germination arrest in Arabidopsis. Elife. 2018 Aug 28;7. pii: e37082. doi: 10.7554/eLife.37082.

Application example



40 µg of total protein from 5-d-old dark-grown *Arabidopsis thaliana* seedlings extracted with 50 mM Tris-HCl pH 7.5,, 10% glycerol, 150 mM NaCl, 0.1% NP-40, 1 mM PMSF, and 1x protease inhibitor cocktail (Roche) were separated on 4-20 % SDS-PAGE and blotted 1h to PVDF. **m:** mock, **P:** paclobutyrazol, **P+G:** PAC+GAs. Blots were blocked with 2% blocking reagent (GE Healthcare) in TBS-T for 1h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1 000 for 1h at RT with agitation. 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 1:10 000 in for 1h at RT with agitation. The blot was washed as above and developed for 5 min with chemiluminescence detection reagent, according to the manufacturers instructions. Exposure time was 20 seconds in a LAS-3000 Imager (Fuji).

Courtesy of Dr. David Alabadi, IBMCP (CSIC-UPV), Valencia, Spain

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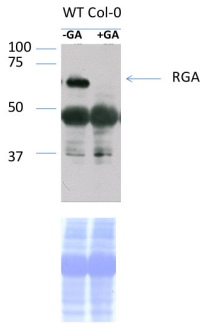

Arabidopsis thaliana seedlings were ground in liquid nitrogen (100 µl of 2.5 x Laemli for 80-120 mg of homogenized material) and boiled in 2,5x Laemmli Buffer (WITH 60 Mm DTT final concentration) otherwise RGA protein will degrade. Plants were grown on 1/ MS for 15 days and were treated with 1 µM GA for 2 hours (GA+) or without hormone (GA-). Total protein extracts were denatured for 2 min. at 95°C and were separated on 10% SDS-PAGE and blotted overnight to PVDF using tank transfer. Blots were blocked for 1.5 h with TBS-T containing 5% low fat milk for 2h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1 000 for 1h 30min at RT with agitation. The antibody solution was decanted and the blot was washed 5 x 10min 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 1:10 000 for 1h 30 min at RT with agitation. The blot was washed 6 x 10min in TBS-T at RT with agitation and developed for 5 min with ECL according to the manufacturer's instructions. Exposure time was 5 seconds with West Femto (Pierce).

Courtesy of Kamila Jaronczyk, IBB, Warsaw, Poland