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

Product no AS16 3694

Anti-D14 | Strigolactone esterase D14

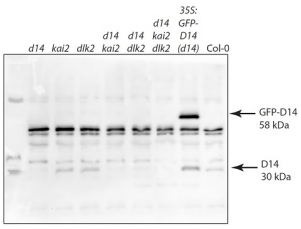
Product information

Immunogen	KLH-conjugated peptide derived from *Arabidopsis thaliana* D14, UniProt:Q9SQR3, TAIR: At3g03990
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	50 µl
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 : 5000 (WB)
Expected | apparent MW	29 | 30 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	This antibody is recognizing recombinant AtD14
Selected references	Yao et al. (2021) Desmethyl butenolides are optimal ligands for karrikin receptor proteins. New Phytol. 2021 Jan 21. doi: 10.1111/nph.17224. Epub ahead of print. PMID: 33474738.

Application example



60 µg of soluble protein from seven-day-old *Arabidopsis thaliana* seedlings (grown under long day conditions on MS agar plates) extracted with PE buffer (50 mM TRIS pH 7.5, 150 mM NaCl, 10% glycerol, 0.1% Tween-20, 1 mM DTT, 1 mM PMSF, 1x Complete protease inhibitor (Roche)) and denatured with Laemlli buffer (including 125 mM DTT) at 95°C for 5 min. The samples were separated on 12% SDS-PAGE and blotted for 60 min to PVDF membrane using wet transfer. Blots were blocked with 2% BSA in TBST for 60 min at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1:1000 for 16 h in cold room with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then washed 4 times for 5 min in TBST buffer at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1:1000 in for 60 min at RT with agitation. The blot was washed as above and developed for 1 min with Clarity ECL substrate (Bio-Rad) using ImageQuant RT-ECL detection system (GE Healthcare). Exposure time was 1 min at medium resolution (1024*1024 pixels).

Dr. Mark Waters, The University of Western Australia