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Product no AS23 4931

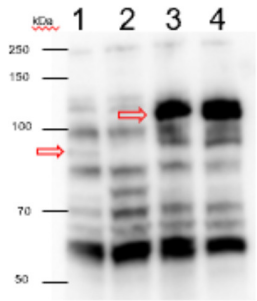
Anti-GUN1 | Pentatricopeptide repeat-containing protein GUN1, chloroplastic

Product information

Immunogen	KLH-conjugated peptide derived from *Arabidopsis thaliana* GUN1 protein sequence, UniProt: Q9SIC9 TAIR: AT2G31400
Host	Rabbit
Clonality	Polyclonal
Purity	Antigen affinity purified serum, in PBS pH 7.4
Format	Lyophilized
Quantity	50 µg
Reconstitution	For reconstitution, add 50 µl of sterile or deionized water.
Storage	Store lyophilized/reconstituted at -20°C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from lyophilized material adhering to the cap or sides of the tubes.

Application information

Recommended dilution	1: 500 - 1 : 1000 (WB)
Expected | apparent MW	101.6 | 97.2 kDa (due to N-terminal processing)
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Arabidopsis thaliana*
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	To be added when available, antibody available in October 2024.



Samples:
1. 50 ug of 36-h-old WT seedlings (*Arabidopsis thaliana*)
2. 50 ug of 36-h-old gun1 mutant (*Arabidopsis thaliana*)
3 and 4: 50 ug of two 36-h-old independent overexpression lines with GFP tag in gun1 background (*Arabidopsis thaliana*)

50 µg/well of total protein extracted freshly from 36-h-old *Arabidopsis thaliana* seedling. Exact buffer components were: 0.0625 M Tris-HCl (pH 6.8), 1% (w/v) SDS, 10% (v/v) glycerol, 0.01% (v/v) 2-mercaptoethanol. and denatured with exact buffer components at 95 °C/5min. Samples were separated on 10% SDS-PAGE at room temperature (RT) and blotted for 1.5 h to Immune-Blot PVDF (Bio-Rad (0.2 um)) using: wet in the cold. Blot was blocked with 5 % milk for: 1h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 500 ON/4°C with agitation. Then washed once for 20 min and 4 times for 5 min in TBS-T at RT with agitation. Blot was incubated in matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated) diluted to 1: 10 000 for 1h/RT with agitation. The blot was washed as above and developed with a following chemiluminescent detection reagent. Exposure time was 5 seconds.

Note regarding background bands: the aim of the protocol which was used above was to confirm that GUN1 protein is detected. Background signal can be decreased by adjustment of Western blot protocol: primary antibody incubation at 1: 1000 1h/RT.