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Product no AS20 4419

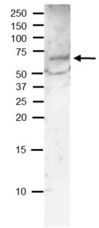
Anti-BG1 | Beta-glucosidase 1

Product information

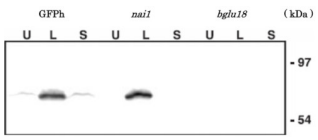
Immunogen	Purified recombinant BG1 of *Arabidopsis thaliana,* residues 27-528 with a His6-thioredoxin tagged, UniProt: Q9SE50, TAIR: At1g52400
Host	Rabbit
Clonality	Polyclonal
Purity	Total IgG. Protein A purified.
Format	Liquid at 2 mg/ml, in PBS with 50% glycerol.
Quantity	200 µg
Storage	Store at -20°C; 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 (IL), 1: 2000 - 1: 4000 (WB)
Expected | apparent MW	60.4 | 60 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	Ogasawara et al. (2009). Constitutive and inducible ER bodies of Arabidopsis thaliana accumulate distinct beta-glucosidases. Plant Cell Physiol. 2009 Mar;50(3):480-8. doi: 10.1093/pcp/pcp007.



Arabidopsis thaliana 7 day-old seedling were freshly extracted with 2x SDS-sample buffer (+ 2ME) for SDS-PAGE and denatured with 4X SDS buffer at 95°C for 5 min. Sample was separated on a 15-20 % SDS-PAGE gradient gel and blotted using wet transfer to PVDF membrane. Blot was blocked with 3 % skim milk/TBS-T, 1h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1000 in TBS-T for 1h/RT. The antibody solution was decanted and the blot was washed 4 times for 10 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 in for 1h/RT with agitation. The blot was washed as above and developed with a chemiluminescent detection reagent, following manufacture's recommendation.



Accumulation of BG1 in locally wounded cotyledons of both GFPh plants (wild-type with GFP-fused with ER-retention signal) and *nai1* mutant but not visible in *bglu18* mutant.
Arabidopsis thaliana 12 day-old cotyledons were freshly extracted with 2x SDS-sample buffer (+ 2ME) for SDS-PAGE and denatured with 4X SDS buffer at 95°C for 5 min. Sample was separated on 12.5 % SDS-PAGE and blotted using wet transfer to PVDF membrane. Blot was blocked with 3 % skim milk/TBS-T, 1h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 2000 in TBS-T for 1h/RT. The antibody solution was decanted and the blot was washed 4 times for 10 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 in for 1h/RT with agitation. The blot was washed as above and developed with a chemiluminescent detection reagent, following manufacture's recommendation.
U - unwounded; L- locally wounded; S- systemically wounded