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Product no AS15 3099

Anti-SGS3 | Protein suppressor of gene silencing 3

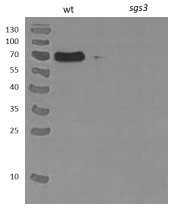
Product information

Immunogen	KLH-conjugated peptide derived from *Arabidopsis thaliana* SGS3 sequence, Uniprot: Q9LDX1, TAIR: AT5G23570
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	72 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Arabidopsis lyrata, Brassica napus, Brassica oleracea, Brassica rapa, Camelina sativa, Raphanus sativus* Species of your interest not listed? Contact us
Not reactive in	*Fagus sylvatica, Nicotiana benthamiana, Oryza sativa, Zea mays*
Selected references	Sun et al. (2021) The epigenetic factor FVE orchestrates cytoplasmic SGS3-DRB4-DCL4 activities to promote transgene silencing in Arabidopsis. Sci Adv. 2021 Aug 4;7(32):eabf3898. doi: 10.1126/sciadv.abf3898. PMID: 34348894; PMCID: PMC8336953.

Application example



250 µg of grounded tissue from 2 weeks old *Arabidopsis thaliana* flowers from wt Col-0 and *sgs3* mutant was incubated with 1 mL lysis buffer (50 mM HCl pH=7.5, 150 mM NaCl, 10% glycerol, 5mM MgCl2, 0,1% Nonidet P40, Roche protease inhibitors, 1 mM TCEP) and denatured with Laemmli buffer (2% SDS, 10% glycerol, 0.125 M Tris-HCl pH=6.8, 1% DTT) at 85°C for 7 min. The samples were separated on 12% SDS-PAGE and blotted for 60 min to nitrocelulose membrane using wet transfer. Blots were blocked with 5% milk powder in PBST for 180 min in a cold room with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1000 for O/N in a cold room with agitation. The antibody solution was decanted and the blot was rinsed briefly once, then washed 5 times in TBST/PBST buffer at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, AS09 602, Agrisera) diluted to 1:10 000 in for 60 min at RT with agitation. The blot was washed as above and developed for 1 min with (ECL DIY mix (100 mM Tris pH8.8, 2 mM 4IBPA (SIGMA), 1.25 mM Lumminol (SIGMA)) using X-ray film. Exposure time was 60 seconds.

Courtesy of Maria Louisa Vigh, Department of Computational and RNA Biology, University of Copenhagen, Denmark