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Product no AS21 4522

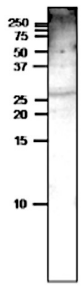
VSP | Vegetative storage protein 1

Product information

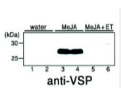
Immunogen	Full length, purified recombinant His6-tagged VSP1 of *Arabidopsis thaliana* UniProt: O49195, TAIR: At5g24780
Host	Rabbit
Clonality	Polyclonal
Purity	Total IgG, purified on Protein A in PBS, 50 % glycerol, filter sterilized.
Format	Liquid
Quantity	100 µg
Storage	Store at -20°C; once reconstituted 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 - 1: 2000 (WB)
Expected | apparent MW	28 | 27 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
Additional information	Reactivity of this antibody to VSP2 has not been determined, Sequence conservation of VSP1 and VSP2 is 86 % therefore, it is most likely that this antibody will also recognize VSP2,
Selected references	Matsushima et al. (2002). An endoplasmic reticulum-derived structure that is induced under stress conditions in Arabidopsis.Plant Physiol. 2002 Dec;130(4):1807-14. doi: 10.1104/pp.009464.



Arabidopsis thaliana maturing siliques were freshly extracted with 100 mm Tris-HCl, pH 6.8, 2% [w/v] SDS, 40% [v/v] glycerol, and 2% [v/v] 2-mercaptoethanol for SDS-PAGE and denatured at 95°C for 5 min. Sample was separated on 15 % SDS-PAGE and blotted at 15V overnight using wet transfer to PVDF membrane. Blot was thoroughly dried before blocking 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.
Blot below has been conducted with the same protocol, but ER bodies were induced in rosette leaves by treatment with MeJA.



Samples:
Water treatment **(1,2)**, treatment with 50 µM MeJA treatment **(3,4)**; 50 µM MeJA plus 20 µl/L ethylene for 36h **(5,6)**. Described in Matsushima et al. (2002).