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Product no AS22 4702

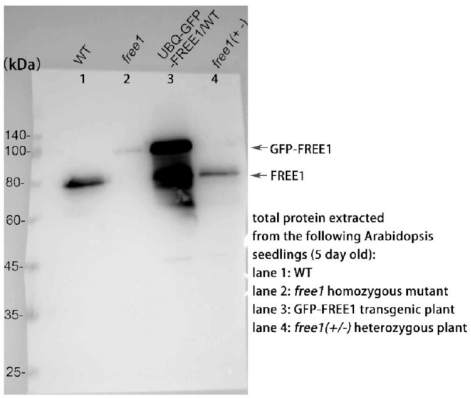
Anti-FREE1 | Protein FREE1

Product information

Immunogen	KLH-conjugated peptide derived from *Arabidopsis thaliana* FREE1 protein sequence, UniProt: Q9ASS2, TAIR: At1g20110
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 : 1000 - 1: 5000 (WB)
Expected | apparent MW	65.39 | 75 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	FREE1 antibody is also recognizing recombinant FREE1 expressed under S35 promotor in *Arabidopsis thaliana*.
Selected references	Tanigawa et al. (2024). FYVE1/FREE1 is involved in glutamine-responsive TORC1 activation in plants. iScience. 2024 Aug 26;27(9):110814. doi: 10.1016/j.isci.2024.110814.



20 µg/well of total protein extracted from *Arabidopsis thaliana* seedlings. Exact buffer components were: 50 mM Tris-HCl pH 7.4, 150 mM NaCl, 1 mM EDTA, 1% TritonX-100, 1x protease inhibitor cocktail. Proteins were denatured with exact buffer components at 96°C/ 10 min. Samples were separated in the cold on 10% SDS-PAGE and blotted for 1.5 h to nitrocellulose (pore size of 0.22 µm), using: wet transfer in the cold. Blot was blocked with 1 % milk for: 1h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1000 for 1h/RT with agitation in PBS-T with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then 3 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 in PBS-T for 45 min with agitation. The blot was washed as above and developed with a following chemiluminescent detection reagent: AgriseraBright (AS16 ECL-N). Exposure time was 120 s.

Courtesy of Dr. Caiji Gao, School of Life Sciences, South China University, Shipai, China