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Product no AS18 4233

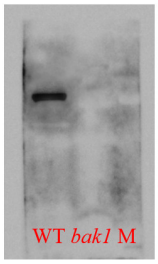
Anti-BAK1 | Brassinosteroid insensitive 1-associated receptor kinase 1 (monocots)

Product information

Immunogen	KLH-conjugated peptide derived from *Oryza sativa* BAK1, UniProt: B8BB68
Host	Rabbit
Clonality	Polyclonal
Purity	Antigen aAffinity purified serum, in PBS pH 7.4
Format	Lyophilized
Quantity	µg or µl
Reconstitution	For reconstitution add 50 µl, of sterile water.
Storage	Lyophilized antibody can be stored at -20°C for up to 3 years. Re-constituted antibody can be stored at 4°C for several days to weeks. 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 (WB)
Expected | apparent MW	68.8 kDa
Confirmed reactivity	*Oryza sativa*
Predicted reactivity	*Brachypodium distachyon, Hordeum vulgare, Phragmites australis*
Not reactive in	*Arabidopsis thaliana, (Lactuca sativa, Nicotiana benthamiana*
Selected references	To be added when available, antibody released in May 2025.



Samples:
WT - *Oryza sativa* wildtype
bak1 - *Oryza sativa BAK1* protein knockout mutant

Growth conditions and age of plant material were: The rice seeds were sterilized with 95% ethyl alcohol and washed five times with sterile water. The sterilized seeds were soaked in water for 2 days, and the uniformly germinated seeds were sown in bottomless 96-well PCR plates with appropriate spacing in the nutrient solution. They were then grown at 30 under white light at approximately 50 µmol m-2 s-1 for 14 h and then at 25 in a dark cycle for 10 h in a growth chamber for 10 days.

PM protein were performed according to previously described methods (Shen et al., 2017, Zhang et al., 2023). They were extracted by a Minute PM Protein Isolation Kit for Plants (Invent Biotechnologies). Samples were tested using antibodies against H+-ATPase (plasma membrane marker).The sample amount for each well is approximately 25ug.

Proteins were separated using 10% SDS-PAGE and transferred onto polyvinylidene fluoride (PVDF) membranes for 90 min using wet transfer in the cold. and then, the PVDF membrane (pore size 0.2 µm) was blocked with 5% milk in TBST (0.8% NaCl, 0.02% KCl, 0.3% Tris, pH 7.4, and 0.05% Tween 20) for 1 hour at room temperature. Excess milk was washed off with TBST three times (5 min every time). Blot was incubated in the primary antibody at a dilution of 1: 1 000 overnight at 4 with agitation in TBST. The antibody solution was decanted, and the blot was rinsed briefly, then washed three times for 15 min in TBST at RT with agitation. Blot was incubated in Agrisera matching secondary antibody (anti-rabbit IgG, AS09 602) diluted to 1:3 000 for 2 h/RT with agitation. The blot was washed three times for 15 min in TBST. Exposure time was 360 seconds at full resolution (Bio-Rad, ChemiDoc system).