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Agrisera AB | Box 57 | SE-91121 Vännäs | Sweden | +46 (0)935 33 000 | www.agrisera.com

Product no AS23 4921

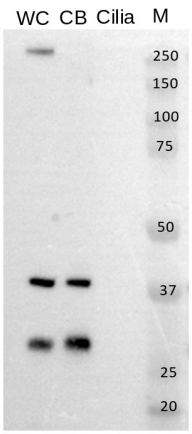
Anti-NAB1 | nucleic acid binding protein 1, Chlamydomonas

Product information

Immunogen	KLH-conjugated peptide derived from *Chlamydomonas reinhardtii* NAB1 protein sequence, UniProt **Q8GV23**
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.
Additional information	The NAB1 gene ID in Phytozome is Cre06.g268600_45321. There are two transcipts:Cre06.g268600.4532.1 - - 35,324 kDa and Cre06.g268600.4532.2 - - 26,539 kDa. In cell bodies of gametes, produce proteins from both transcripts, while in vegetative cells only one transcript is translated to NAB1 protein (26.5 kDa).

Application information

Recommended dilution	1 : 1000 (WB)
Expected | apparent MW	26.5 kDa | 26 kDa (for *Chlamydomonas reinhardtii*)
Confirmed reactivity	*Chlamydomonas reinhardtii*
Predicted reactivity	*Arabidopsis thaliana* CSP1- CSP4. Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	The peptide used to elicit this antibody is conserved in the Cold Shock Domain of *A. thaliana*, which is shared by CSPs and NAB1.
Selected references	To be added when available, antibody available in October 2024.



Samples:
1 - 2 ug of *C. reinharditti* C1 whole extract
2 - 2 ug of *C. reinharditti* C1 cell body
3 - 2 ug of *C. reinharditti* C1 cilia Mark: MW markers 4 - 2 ug of C. reinharditti

Chlamydomonas cilia isolation was performed, and whole cell extract, cell body, and cilia fractions were stored at -80°C. The buffer components consisted of 20 mM HEPES, 10 mM MgCl2, 50 mM KCl, 2 mM DTT, 1 mM EDTA, and 1X Protease inhibitor. Samples were denatured with 6x SDS-Sample Laemmli buffer at 95°C for 5 minutes and store at -20 oC. Samples were separated on 10% SDS-PAGE and transferred overnight

to PVDF membranes (pore size of 0.45 µm) using wet transfer in cold conditions. The blot was then blocked with 5% milk for 1 hour at room temperature with agitation. Next, the blot was incubated in the primary antibody at a dilution of 1:1000 for 1 hour at room temperature in TBS-T with agitation. Subsequently, the antibody solution was decanted, and the blot was briefly rinsed twice, followed by three washes for 10 minutes each in TBS-T at room temperature with agitation. The blot was then incubated with goat anti-rabbit IgG secondary antibody (Agrisera goat anti-rabbit IgG horse radish peroxidase conjugated AS09 602) at a dilution of 1:25000 for 1 hour at room temperature with agitation. After incubation with the secondary antibody, the blot was washed three times as previously described and developed using a chemiluminescent detection reagent with exposure time of 30 seconds.

Courtesy of Meenakshi Tanwar, Department of Cell Biology and Molecular Genetics, University of Maryland, USA