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Product no AS21 4689

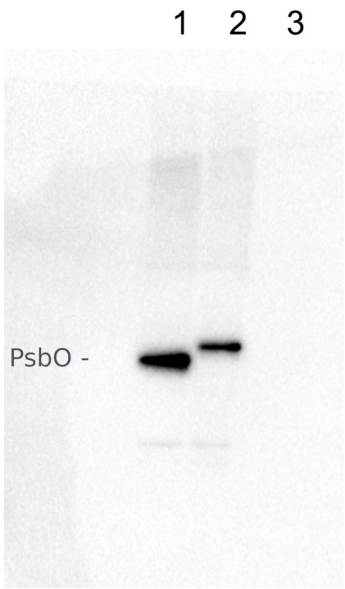
Anti-PsbO | Photosystem II manganese-stabilizing polypeptide (algal)

Product information

Immunogen	KLH-conjugated peptide derived from *Chlamydomonas reinhardtii* PsbO protein sequence, UniProt: P12853
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	29.9-30.5 kDa | kDa (due to N-terminal or C-terminal processing)
Confirmed reactivity	*Chlamydomonas reinhardtii, Synechocystis* PCC 6803
Predicted reactivity	*Halomicronema hongdechloris, Synechocystis sp.*, *Synechococcus elongatus* Species of your interest not listed? Contact us
Not reactive in	*Acaryochloris marina, Picosynechococcus* 7002
Additional information	This antibody is also recognizing a tagged PsbO.
Selected references	To be added when available, antibody available in October 2023.



Samples:
1- Wild type *Synechocystis* 6803
2 - tagged version of PsbO in *Synechocystis* 6803 (information regarding the specific tag is proprietary)
3 - *Picosynechococcus* 7002 (negative control)

Applied lysis buffer: 100 mM Tris, pH 8, 300 mM sucrose, 0.1% b-ME, 1x GoldBio ProBlock Protease Inhibitor cocktail Lysed using freeze/sonicate. Added 2% LiDS and denatured 1 h on ice. Separated on 4-20% SDS-PAGE, 2 ug Chl/well Wet blotted onto PVDF for 1 h. Blocked with 5% nonfat milk in TBST for 1 h. Incubated with primary antibody in TBST at 1:1000 overnight. 3 quick washes, 3 15-minute washes

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with TBST. Incubated with secondary antibody in TBST at 1:20,000 for 1 h followed by three quick washes, 3 15-minute washes with TBST. Developed using mid-femtogram chemiluminescence detection reagent. Imaged on Bio-Rad Gel Dock with the exposure time of 2 seconds.

Courtesy of Dr. David Vinyard, Louisiana State University, USA

10 µg/well of total protein extracted from *Chlamydomonas reinhardtii*, total cell extract were denatured with Invitrogen LDS sample buffer (4X) at 70°C/5 min. and separated on Invitrogen NuPage Bis-Tris 4-12% SDS-PAGE 45 min and blotted for 1 h to Invitrogen PVDF (pore size of 0.45 µm), using: wet transfer. Blot was blocked with 5% milk in TBS-T for: 1h/RT with agitation, and incubated in the primary antibody at a dilution of 1: 1000 for 1h/RT with TBS-T Blocking. The antibody solution was decanted, and the blot was rinsed briefly twice, then washed once for 10 min and 2 times for 5 min in TBS-T at RT with agitation. Blot was incubated in matching secondary antibody (anti-rabbit IgG ALP conjugated, AS09 607 lot 2105) diluted to 1: 5 000 in TBS-T Blocking for 0,5h/RT with agitation. The blot was washed as above and developed with Agrisera AS19 BCIP-NBT reagent lot 03068231 for 3 minutes.