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Product no AS19 4312

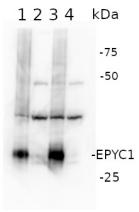
EPYC1 | Essential Pyrenoid Component 1

Product information

Immunogen	KLH-conjugated peptide derived from *Chlamydomonas reinhardtii* EPYC1, C-terminal part UniProt: A0A2K3DA85
Host	Rabbit
Clonality	Polyclonal
Purity	Immunogen affinity purified serum in PBS pH 7.4.
Format	Lyophilized
Quantity	50 µg
Reconstitution	For reconstitution add 50 µl, of sterile water
Storage	Store lyophilized/reconstituted 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 (WB)
Expected | apparent MW	32 kDa
Confirmed reactivity	*Chlamydomonas reinhardti*
Predicted reactivity	*Chlamydomonas reinhardtii*
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	Burlacot et al. (2022) Alternative photosynthesis pathways drive the algal CO2-concentrating mechanism. Nature 605, 366–371 (2022). https://doi.org/10.1038/s41586-022-04662-9



Samples:
1 – 25 µg of *Chlamydomonas reinhardtii* wild-type grown in low light.
2 – 25 µg of *Chlamydomonas reinhardtii* epyc1 mutant grown in low light.
3 – 25 µg of *Chlamydomonas reinhardtii* wild-type incubated 2 hours in high light.
4 – 25 µg of *Chlamydomonas reinhardtii* epyc1 mutant incubated 2 hours in high light.
Markers: Precision Plus Protein Dual Color from Biorad.

25 µg/well of total protein extracted freshly from *Chlamydomonas reinhardtii* cells with 0.1mM NaOH + Protease inhibitor cocktail set IV (1:200; 539136, Sigma) and denatured with Sample buffer (1.6 mM EDTA, 1.6% SDS, 40 mM DTT, 8% Glycerol, 0.016% Bromophenol Blue, 333 mM Tris Base) at 70°C for 5 min, were separated on 12% SDS-PAGE and blotted 1h to nitrocellulose membrane (pore size of 0.2 um), using semi-dry transfer. Blot was blocked with 5% milk for 1h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 1 000 in TBS-T 5% milk ON/4°C with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then washed once for 15 min and 3 times for 5 min in TBS-T at RT with agitation. Blot was incubated in Agrisera matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, AS09 602) diluted to 1:25 000 in TBS-T 5% milk for 1h/RT with agitation. The blot was washed as above and developed for 5 min with Agrisera ECL Bright. Exposure time was 10 seconds.
Courtesy of Dr. Justin Findinier, Carnegie Institution for Science, USA