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Product no AS15 2826

Anti-MIP1 | Aquaporin, glycerol transport activity

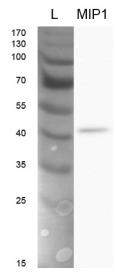
Product information

Immunogen	KLH-conjugated synthetic peptide, derived from *Chlamydomonas reinhardtii* MIP1, UniProt: Q5VLJ9
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 : 200 (IG), 1 : 10 000 (WB)
Expected | apparent MW	31.5 | 43 kDa
Confirmed reactivity	*Chlamydomonas reinhardtii* (strains CC3395, and UVM4 from Neupert et al., 2009. (Generation of *Chlamydomonas* Strains that Efficiently Express Nuclear Transgenes.)
Predicted reactivity	*Chlamydomonas reinhardtii*
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Additional information	As MIP1 is a membrane protein please use a high redox potential in your lysis buffer
Selected references	Komsic-Buchmann et al. (2014). The Contractile Vacuole as a Key Regulator of Cellular Water Flow in Chlamydomonas reinhardtii. Eukaryotic cell (13), Issue 11: 1421-30.

Application example



10 µg of total protein from 15ml cell suspension of *Chlamydomonas reinhardtii* CC3395, with a cell density of (~ 10 times 8) extracted with SDS buffer supplememnted with Protease inhibitor (cOmplete Ultra tablets, EDTA free, Roche, Mannheim), after removal of the cell debris via centrifugation, DTT was added (100mM final concentration) and were separated on 12 % SDS-PAGE and blotted 1h to PVDF using tank transfer. Blots were blocked with RotiBlock-Solution (Roth, Darmstadt) for 1h at room temperature (RT) or at 4°C ON with agitation. Blot was incubated in the primary antibody at a dilution of 1: 10,000 in TBS with 2% milk powder for 1h at RT with agitation. The antibody solution was decanted and the blot was washed 3 times for 10 minutes each with TBS-T at RT with agitation. Blot was incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, from Sigma, St.Luis, MO) diluted to 1:80 000 in TBS tith 5% milk powder for 1h at RT with agitation. The blot was washed as above and developed for 1-2 min with ECL according to the manufacturer's instructions. Exposure time was 40 seconds.

Courtesy of Dr. Karin Komsic-Buchmann and Prof. Dr. Burkhard Becker, University of Cologne, Germany