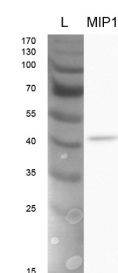


Product no **AS15 2826****MIP1 | Aquaporin, glycerol transport activity****Product information**

<b>Immunogen</b>	KLH-conjugated synthetic peptide, derived from <i>Chlamydomonas reinhardtii</i> MIP1, UniProt: <a href="#">Q5VLJ9</a>
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Immunogen affinity purified serum in PBS pH 7.4.
<b>Format</b>	Lyophilized
<b>Quantity</b>	50 µg
<b>Reconstitution</b>	For reconstitution add 50 µl of sterile water
<b>Storage</b>	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**

<b>Recommended dilution</b>	1 : 200 (IG), 1 : 10 000 (WB)
<b>Expected   apparent MW</b>	31,5   43 kDa
<b>Confirmed reactivity</b>	<i>Chlamydomonas reinhardtii</i> (strains CC3395, and UVM4 from Neupert et al., 2009. (Generation of <i>Chlamydomonas</i> Strains that Efficiently Express Nuclear Transgenes.)
<b>Predicted reactivity</b>	<i>Chlamydomonas reinhardtii</i>
<b>Not reactive in</b>	No confirmed exceptions from predicted reactivity are currently known
<b>Additional information</b>	As MIP1 is a membrane protein please use a high redox potential in your lysis buffer
<b>Selected references</b>	<a href="#">Komsic-Buchmann et al. (2014)</a> . The Contractile Vacuole as a Key Regulator of Cellular Water Flow in <i>Chlamydomonas reinhardtii</i> . 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 supplemented 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 with 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