

product **AS09 494**
TIP2;1 (delta) | Delta-VM23

product information

background	TIPs belong to MIP/aquaporin protein family. Alternative name of radish TIP2;1 (delta) is delta-VM23.
immunogen	<u>KLH</u> -synthetic peptide conserved in <i>Raphanus sativus</i> TIP2;1 (delta) <u>Q82142</u>
antibody format	rabbit polyclonal, serum,
quantity	100 µl
storage	store at -20°C; 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 material adhering to the cap or sides of the tubes.
tested applications	ELISA (ELISA), western blot (WB)
additional information	<p>0.1 % sodium azide is added as preservative. For antibody re-suspending information check the tube label.</p> <p>Antibodies will detect target protein in a few µg of a crude preparation loaded per well. If purified preparations of vacuolar and plasma membranes are used, one µg load per well should be sufficient.</p> <p>42 kDa dimer is also detected by those antibodies.</p> <p>Protocol for isolation of plant vacuolar membranes can be found here.</p>

application information

recommended dilution	1: 8000 (ELISA), 1: 1000 with standard ECL (WB)
expected apparent MW	24.9 23 kDa
confirmed reactivity	<i>Raphanus sativus</i>
predicted reactivity	dicots
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	<p>Protein or membrane sample should be treated at 70°C for 10 min before loading on the gel.</p> <p>Diluted antibody solution can be used 2 to 3 times within one month if it contains 0.1 % sodium azide as preservative and is stored at -20°C to -80°C.</p> <p>Manufactured by Operon Biotechnologies.</p>

selected references | to be added when available

application example

crude membrane of yeast cells expressing recombinant TIP2;1 (RsTIP2;1) and TIP1;1 (RsTIP1;1) proteins were separated on 12 % SDS-PAGE and blotted 1h to PVDF membrane (40 min. at 10 V using BioRad semidry transfer). Filters were blocked 1h with 5 % low-fat **milk powder** in TBS-T (0.05% Triton X.100). Membranes were washed 5 times with TBS-T, each time in a fresh polystyrene box and probed with anti-TIP2;1 antibodies (AS09 494, **1:2000**, 1h) and secondary anti-rabbit (**1:2000**, 1 h). All steps were performed in RT with agitation.

Left panel: antibody incubated without peptide, right panel with peptide used to elicit this antibody (peptide competition assay)

