

product **AS09 511**

**TIP2;2 | tonoplast intrinsic protein 2-2 (C-terminal)**

## product information

<b>background</b>	TIP2-2 belongs to aquaporin protein family and facilitates transport of water and small neutral solutes across tonoplast membrane.
<b>immunogen</b>	KLH-conjugated peptide derived from C-terminus of <i>Oryza sativa</i> TIP2-2 <u>Q5Z6F0</u>
<b>antibody format</b>	rabbit polyclonal, serum,
<b>quantity</b>	100 µl
<b>storage</b>	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.
<b>tested applications</b>	ELISA (ELISA), western blot (WB)
<b>additional information</b>	0.1 % sodium azide is added as preservative. For antibody re-suspending information check the tube label.  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.  Vacuolar membrane protocol is available <a href="#">here</a> .

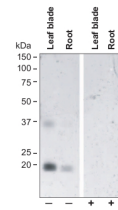
## application information

<b>recommended dilution</b>	1: 8000 (ELISA), 1: 2000 with standard ECL (WB)
<b>expected   apparent MW</b>	25   20-24 kDa
<b>confirmed reactivity</b>	<i>Oryza sativa</i>
<b>predicted reactivity</b>	<i>Oryza sativa</i>
<b>not reactive in</b>	no confirmed exceptions from predicted reactivity known in the moment
<b>additional information</b>	Protein or membrane sample should be treated at 70°C for 10 min before loading on the gel.  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.  Manufactured by Operon Biotechnologies.
<b>selected references</b>	

[Sakurai](#) et al. (2008). Tissue and cell-specific localization of rice aquaporins and their water transport activities- Plant Cell Physiol. 49: 30-39.

### application example

**1.5 µg of crude membrane fraction/lane** from *Oryza sativa* L. cv. Akitakomachi leaf blade and root 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;2 C-terminal antibodies (AS09 511, **1:1000**, 1h) and secondary anti-rabbit (**1:2000**, 1 h). All steps were performed in RT with agitation.



Peptide used to elicit this antibody has been added to primary antibody incubation (right panel, + +) and therefore specific signal has been depleted in this neutralization/immunocompetition assay.