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product AS09 510

TIP2;2 | tonoplast intrinistic protein 2-2

product information

background	**TIP2-1** belongs to aquaporin protein family and facilitates transport of water and small neutral solutes across tonoplast membrane.
immunogen	KLH-conjugated peptide derived from N-terminus of *Oryza sativa* TIP2-2 Q5Z6F0
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	0.1 % sodium azide is added as preservative. For antibody re-suspending information check the tube lable. 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 here.

application information

recommended dilution	1: 8000 (ELISA), 1: 2000 with standard ECL (WB)
expected | apparent MW	25 | 20-24 kDa
confirmed reactivity	*Oryza sativa*
predicted reactivity	dicots including: *Arabidopsis thaliana*, *Ricinus communis*, *Spinacia oleracea, Vitis vinifera*, monocots including: *Hordeum vulgare*, *Triticum aestivum, Zea mays,* trees: *Populus trichocarpa*
not reactive in	no confirmed exceptions from predicted reactivity known in the moment
additional information	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 -20ºC to -80ºC. Manufactured by Operon Biotechnologies.

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selected references

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