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Product no AS22 4812

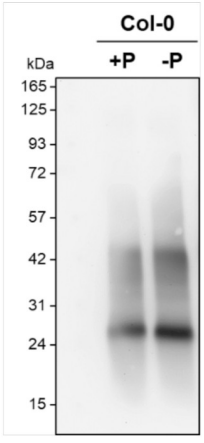
Anti-PIP2;7 | Plasma membrane aquaporin, N-terminal

Product information

Immunogen	KLH-conjugated synthetic peptide derived from *Arabidopsis thaliana* PIP2;7 UniProt:P93004,TAIR:At4g35100
Host	Rabbit
Clonality	Polyclonal
Purity	Affinity purified serum, in PBS pH 7.4
Format	Lyophilized
Quantity	50 µg
Reconstitution	For reconstitution add 50 µl, of sterile or deionized water.
Storage	Store lyophilized/reconstituted at -20°C; once reconstituted 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 lyophilized material adhering to the cap or sides of the tubes.

Application information

Recommended dilution	1 : 1000 (WB)
Expected | apparent MW	29.7 | kDa (due to N-terminal or C-terminal processing)
Confirmed reactivity	*Arabidopsis thaliana, Nicotiana benthamiana*
Predicted reactivity	*Amaranthus tricolor, Beta vulgaris sp. vulgaris, Brassica oleracea, Jatropha curcas, Juglans regia, Populus tremulax Populus tremuloides, Spinacia oleracea, Vitis vinifera* Species of your interest not listed? Contact us
Not reactive in	*Solanum lycopersicum*
Selected references	To be added when available, antibody available in February 2025.



Samples:
1 - *Arabidopsis thaliana* Col-0 of 11-day-old seedlings, phosphate (Pi) sufficiency
2 - *Arabidopsis thaliana* Col-0 of 11-day-old seedlings, with 5 days of Pi deficiency

5 µg/well of microsomal protein extracted from *Arabidopsis thaliana* roots. Microsomal protein was isolated using the Minute™ Plant Microsomal Membrane Extraction Kit (Invent Biotechnologies, MM-018) according to the manual instructions. The resulting pellet was solubilized with buffer containing 1% sodium 4-hexylphenylazosulfonate (Na-Azo, Excenen Pharmatech), 100 mM triethylammonium bicarbonate (TEABC, Sigma), pH 8.5, 2× Protease inhibitor cocktail (Sigma-Aldrich) and 1 mM phenylmethylsulfonyl fluoride (PMSF), and denatured with buffer containing 1× NuPAGE™ LDS Sample Buffer (Invitrogen) and 100 mM dithiothreitol (DTT) at 70°C for 15 min. Samples were loaded into 4–12% Q-PAGE™ Bis-Tris Precast Gel (SMOBIO) SDS-PAGE and blotted to Immobilon®-P PVDF membrane (Millipore, pore size of 0.45 µm) for 1 h using wet transfer. Blot was blocked with 1% BSA in 1× PBS solution with 0.2% Tween 20 (PBST, pH 7.2) for: 1 h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1: 5,000 in PBST containing 1% BSA for 1 h/RT with agitation. The antibody solution was decanted, and the blot was washed 4 times for 5 min in PBST at RT with agitation. Blot was incubated in matching secondary antibody (Goat anti-Rabbit IgG (H&L),

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HRP conjugated, AS0 602, Agrisera) diluted to 1: 25 000 in PBST containing 1% BSA for 1 h/RT with agitation. The blot was washed as above and developed with a following chemiluminescent detection reagent. Exposure time was 30 seconds.

Courtesy of Dr. Tzu-Yin Liu, National Tsing Hua University, Taiwan