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Product no AS22 4816

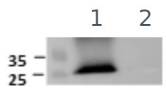
Anti-PIP1;1, PIP1;2, PIP1;3, PIP1;4, PIP1;5 | Aquaporins

Product information

Immunogen	KLH-conjugated synthetic peptide derived from N terminus of *Raphanus sativus* PAQ1Q80368. Chosen peptide is conserved in PIP1;1, PIP1;2, PIP1;3 N-terminus of *Raphanus sativus* and in all 5 isoforms of *Arabidopsis thaliana* coded by:AT3G61430.1 (PIP1;1), AT2G45960.3 (PIP1;2), AT1G01620.1 (PIP1;3), AT4G00430.1 (PIP1;4), AT4G23400.1 (PIP1;5)
Host	Rabbit
Clonality	Polyclonal
Purity	Antigen 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	30.66 | 28 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Amaranthus tricolor, Beta vulgaris subsp. vulgaris, Lupinus sp. , Hordeum vulgare, Nicotiana tabacum, Olea europea, Phoenix dactilifera, Raphanus sativus, Solanu lycopersicum, Ricinus communis, Oryza sativa, Populus trichocarpa, Zea mays, Vitis vinifera* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known
Selected references	To be added when available, antibody available in January 2024.



40-50 µg/well of total protein extracted freshly from *Arabidopsis thaliana* roots. Exact buffer components were: 50mM Tris-HCl pH 8, 20mM EDTA, 1mM DTT, 1% PIC and 400mM Sucrose and denatured with 3X sample buffer (62.5mM Tris pH-6.8 , 10% glycerin, 2% SDS, 5% Mercaptoethanol, 0,05% Bromophenolblue) at 70°C/5 min. Samples were separated in the cold on 8,5 % SDS-PAGE and blotted for 1h nitrocellulose (pore size of 0,45µm), using: wet transfer in the cold. Blot was blocked with 5 % milk for 1h/RT with agitation. Blot was incubated in the primary antibody at a dilution of 1:1000 with agitation in TBS-T ON/4°C. The antibody solution was decanted, and the blot was washed 3 times for 5 min in TBS-T at RT with agitation. Blot was incubated in matching secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, AS09 602) diluted to 1:25 000 in 3%Milk for 1h/RT with agitation. The blot was washed as above and developed with chemiluminescent detection reagent according to manufacture's instruction. Exposure time was 1 second.

Courtesy of Chaitra Hiremat, University of Natural Resources and Life Science, Vienna, Austria