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Product no AS09 487

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

Product information

Immunogen KLH-conjugated synthetic peptide conserved in Arabidopsis thaliana: PIP1;1 UniProt: P61837, At3q61430 PIP1;2

UniProt: Q06611, TAIR: At2q45960 PIP1;3 UniProt: Q08733, TAIR: At1q01620, PIP1;4 UniProt: Q39196, TAIR:

At4g00430, PIP1;5 UniProt: Q8LAA6 TAIR: At4g23400

Host Rabbit

Clonality Polyclonal

Purity Immunogen affinity purified serum in PBS pH 7.4.

Format Lyophilized

Quantity 50 μg

Reconstitution For reconstitution add 50 µl of sterile water

Storage

Store lyophilized/reconstituted at -20 °C; once reconstituted make aliquots to avoid repeated freeze-thaw cycles. Please remember to spin the tubes briefly prior to opening them to avoid any losses that might occur from material adhering to

the cap or sides of the tube.

Additional information 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

Application information

Recommended dilution 1:1000 (WB)

Expected | apparent 30.68 | 28 kDa

Confirmed reactivity Arabidopsis thaliana, Brassica sp., Jatropha curcas L. cv. Biji Jarak , Mesembryantheum crystallinum, Populus nigra,

Populus trichocarpa, Raphanus sativus, Setaria viridis, Thellungiella salsuginea

Predicted reactivity Brassica sp., Hordeum vulgare, Juglans regia, Nicotiana tabacum, Oryza sativa, Populus tremula, Triticum aestivum,

Vicia faba

Species of your interest not listed? Contact us

Not reactive in Fragaria sp., Spinacia oleracea

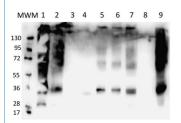
Additional information Protein or membrane sample should be treated at 70°C for 10 min before loading on the gel.

Chen et al. (2022) Elucidating the role of SWEET13 in phloem loading of the C4 grass Setaria viridis. Plant J. 2022 Selected references Feb;109(3):615-632. doi: 10.1111/tpj.15581. Epub 2021 Dec 12. PMID: 34780111.

Jang et al. (2013). Two aquaporins of Jatropha are regulated differentially during drought stress and subsequent recovery. J Plant Physiol. March 25.

<u>Lopez</u> et al. (2013). Aquaporins And Leaf Hydraulics, Poplar Sheds New Light. Plant Cell Physiol. Sep 20.

Application information



10 μg of Arabidopsis thaliana tonoplast fraction (1), Thellungiella salsuginea tonoplast fraction (2), Mesembryanthemum crystallinum tonoplast fraction (3), Nicotiana tabacum tonoplast fraction (4), Arabidopsis thaliana plasma membrane fraction (5), Thellungiella salsuginea plasma membrane fraction (6), Mesembryanthemum crystallinum plasma membrane fraction (7), Arabidopsis halleri microsome fraction (8), Brassica sp. microsomal fraction (9) were extracted with Protein Extraction Buffer PEB (AS08 300). Samples were diluted with 1X sample buffer (NuPAGE LDS sample buffer (Invitrogen) supplemented with 50 mM DTT and heat at 70 °C for 5 min and keept on ice before loading. Protein samples were



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separated on 4-12% Bolt Plus gels, LDS-PAGE and blotted for 70 minutes to PVDF using tank transfer. Blots were blocked immediately following transfer in 2% blocking reagent or 5% non-fat milk dissolved in 20 mM Tris, 137 mM sodium chloride pH 7.6 with 0.1% (v/v) Tween-20 (TBS-T) for 1h at room temperature with agitation. Blots were incubated in the primary antibody at a dilution of 1: 10 000 (in blocking reagent) for 1h at room temperature with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, and then washed 1x15 min and 3x5 min with TBS-T at room temperature with agitation. Blots were incubated in secondary antibody (anti-rabbit IgG horse radish peroxidase conjugated, recommended secondary antibody AS09 602. Agrisera) diluted to 1:25 000 in blocking reagent for 1h at room temperature with agitation. The blots were washed as above. The blot was developed for 5 min with chemiluminescence reagent according to manufacture instructions. Images of the blots were obtained using a CCD imager (VersaDoc MP 4000) and Quantity One software (Bio-Rad). Exposure time was 30 seconds.

The background at the top of the membrane can be optimized.

Courtesy of Dr. Rosario Vera, UNAM, Mexico