Agrisera

contact: support@agrisera.com

Agrisera AB | Box 57 | SE-91121 Vännäs | Sweden | +46 (0)935 33 000 | www.agrisera.com

Product no AS09 491

PIP2;1, PIP2;2, PIP2;3 | Plasma membrane intrinistic protein 2-1,2-2,2-3

Product information

Immunogen	KLH-conjugated synthetic peptide derived from *Arabidopsis thaliana* PIP2 proteins: AtPIP2-1, At3g53420 , AtPIP2-2 P43287, At2g37170 , AtPIP2-3 P30302, At2g37180
Host	Rabbit
Clonality	Polyclonal
Purity	Serum
Format	Lyophilized
Quantity	100 µl
Reconstitution	For reconstitution add 100 µl of sterile water.
Storage	Store lyophilized/reconstituted 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.
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.

Application information

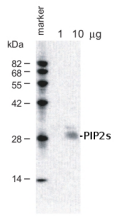
Recommended dilution	1 : 8000 (ELISA), 1 : 1000 (WB)
Expected | apparent MW	30.4 | 28 (PIP2-1,PIP2-2,PIP2-3) kDa
Confirmed reactivity	*Arabidopsis thaliana, Camelina sativa, Gromphadorhina coquereliana, Raphanus sativus*
Predicted reactivity	*Brassica napus, Cucumis sativus, Glycine hispida, Gossypium hirsutum, Hedychium coronarium, Mimosa saman, Nicotiana glauca, Petunia hybrida, Pisum sativum, Ricinus communis, Populus tremula x Populus tremloides, Physcomitrella patens* Species of your interest not listed? Contact us
Not reactive in	No confirmed exceptions from predicted reactivity are currently known.
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. Triton X-100 should not be included in the protein extraction buffer, when cell organelles or membrane proteins must be separated from soluble proteins. Because, Triton X breaks membrane structure and solubilizes most membranes proteins. Furthermore, it should be noted that Triton X at high concentrations binds SDS and mask the detergent effect of SDS for SDS-PAGE. Also, micelles of Triton X behave as a large complex with molecular mass of 90 kDa at high concentrations in SDS-PAGE. For high resolution images, please visit the specific product page at www.agrisera.com
Selected references	Hyun-Sung et al. (2019). NaCl-induced CsRCI2E and CsRCI2F interact with aquaporin CsPIP2;1 to reduce water transport in Camelina sativa L. Biochemical and Biophysical Research Communications,Available online 4 April 2019. Chowanski et al. (2015). Cold induced changes in lipid, protein and carbohydrate levels in the tropical insect Gromphadorhina coquereliana. Comp Biochem Physiol A Mol Integr Physiol. 2015 May;183:57-63. doi: 10.1016/j.cbpa.2015.01.007. Epub 2015 Jan 23.

Agrisera

contact: support@agrisera.com

Agrisera AB | Box 57 | SE-91121 Vännäs | Sweden | +46 (0)935 33 000 | www.agrisera.com

Application example



1 µg and 10 µg of crude membrane fraction/lane from *Arabidopsis thaliana* 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-PIP2s antibodies (AS09 491, **1:1000**, 1h) and secondary anti-rabbit (**1:2000,** 1 h). All steps were performed in RT with agitation.