

## product **AS12 2110**

### **PIP2-1-7 | plasma membrane aquaporin isoforms 1-7 (C-terminal)**

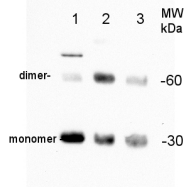
#### product information

<b>Background</b>	<b>Plasma membrane aquaporin, PIP2;7</b> is water channel protein required for water transport across cell membrane. Alternative names: plasma membrane intrinsic protein 2-7, AtPIP2;7, plasma membrane intrinsic protein 3, salt stress-induced major intrinsic protein, PIP3a
<b>Immunogen</b>	<u>KLH</u> -conjugated synthetic peptide derived from <i>Zea mays</i> PIP2-7 C-terminal, <u>Q9ATM4</u> , conserved also in <i>Zea mays</i> PIP2-1, UniProt: <u>Q84RL7</u> , PIP2-2, UniProt: <u>Q9ATM8</u> , PIP2-3 (80 % conservation) UniProt: <u>Q9ATM7</u> , PIP2-4 (80 % conservation) UniProt: <u>Q9ATM6</u> , PIP2-5 (70 % conservation) UniProt: <u>Q9XF58</u> , PIP2-6 (50 % conservation) UniProt: <u>Q9ATM5</u>
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Serum
<b>Quantity</b>	100 µl
<b>Reconstitution</b>	For reconstitution add 100 µl of sterile water.
<b>Storage</b>	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.
<b>Tested applications</b>	western blot (WB)
<b>Related products</b>	<u>AS09 488</u>   PIP2;1   aquaporin PIP2;1 <u>AS09 490</u>   PIP2;2   plasma membrane aquaporin 2b <u>AS09 491</u>   PIP2;1,PIP2;2,PIP2;3  plasma membrane intrinsic protein 2-1,2-2, 2-3
<b>Additional information</b>	Protocol for isolation of plant plasma membrane proteins can be found <a href="#">here</a> .  This antibody has a potential to work in immunolocalization studies, as it is recognizing C-terminal part of the sequence.

#### Application information

<b>Recommended dilution</b>	1: 3000 with standard ECL (WB)
<b>Expected   apparent MW</b>	30.7   30 kDa ( <i>Zea mays</i> )
<b>Confirmed reactivity</b>	<i>Lactuca sativa</i> , <i>Pisum sativum</i> , <i>Solanum lycopersicum</i> , <i>Zea mays</i>
<b>Predicted reactivity</b>	<i>Arabidopsis thaliana</i> , <i>Brassica oleracea</i> , <i>Cicer arietinum</i> , <i>Coffea arabica</i> , <i>Cucumis sativus</i> , <i>Fragaria chiloensis</i> , <i>Glycine max</i> , <i>Medicago trunculata</i> , <i>Mimosa pudica</i> , <i>Nicotiana tabacum</i> , <i>Olea europaea</i> , <i>Phaseolus vulgaris</i> , <i>Pisum sativum</i> , <i>Pyrus communis</i> , <i>Spinacia oleracea</i> , <i>Solanum lycopersicum</i> , <i>Solanum tuberosum</i> , <i>Triticum urartu</i> , <i>Vitis vinifera</i> , monocots: <i>Hordeum vulgare</i> , <i>Oryza sativa</i> , <i>Triticum aestivum</i> , trees: <i>Picea mariana</i> , <i>Populus trichocarpa</i>
<b>Not reactive in</b>	no confirmed exceptions from predicted reactivity known in the moment
<b>Additional information</b>	detection pattern consists of di and monomer of PIP2-7
<b>Selected references</b>	to be added when available, antibody released in May 2012.

## application example



**10 µg of total protein** from *Zea mays* roots (**1**), *Phaseolus vulgaris* leaves (**2**) or roots (**3**) extracted with a mixture of 250 mM sorbitol, 50 mM Tris-HCl (pH 8), 2 mM EDTA, and protease inhibitors [1 mM phenylmethylsulfonyl Xuoride, 1 mg ml<sup>-1</sup> each of leupeptin, aprotinin, antipain, chymostatin, and pepstatin] were separated on 12 % **SDS-PAGE** and blotted 1h to **PVDF**. Blots were blocked with 5% milk in TBS-T for 2h at room temperature (RT) with agitation. Blot was incubated in the primary antibody at a dilution of 1: 3.000 for 1h at RT with agitation. The antibody solution was decanted and the blot was rinsed briefly twice, then washed four times for 5 min in TBS-T at RT with agitation. Blot was incubated in secondary antibody (goat anti-rabbit IgG horse radish peroxidase conjugated, from Agrisera [AS09 602](#)) diluted to 1:30 000 in TBS-T for 1h at RT with agitation. The blot was washed as above and developed for 5 min with ECL according to the manufacturers instructions. Exposure time was 60 seconds.

Courtesy of Dr. Ricardo Aroca, CSIC, Spain