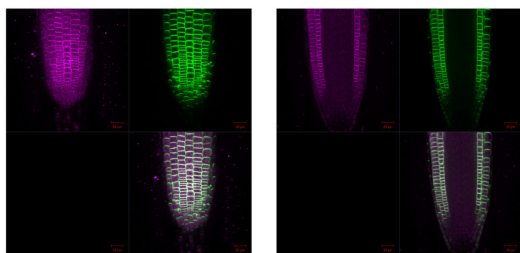


Product no **AS20 4521****Anti-PIN2 | Auxin efflux carrier component 2 (polyclonal)****Product information**

<b>Immunogen</b>	KLH-conjugated mixture of two synthetic peptides derived from AtPIN2 sequence, UniProt:Q9LU77, TAIR:At5g57090
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Purity</b>	Immunogen affinity purified serum in PBS pH 7.4.
<b>Format</b>	Lyophilized
<b>Quantity</b>	50 µg
<b>Reconstitution</b>	For reconstitution add 50 µl, of sterile water
<b>Storage</b>	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.

**Application information**

<b>Recommended dilution</b>	1 : 200 (IL)
<b>Expected   apparent MW</b>	69.3 kDa
<b>Confirmed reactivity</b>	<i>Arabidopsis thaliana</i>
<b>Predicted reactivity</b>	<i>Beta vulgaris</i> , <i>Brassica napus</i> , <i>Camelina sativa</i> , <i>Cannabis sativa</i> , <i>Capsella rubella</i> , <i>Cucumis melo</i> , <i>Eucalyptus grandis</i> , <i>Eutrema salsugineum</i> , <i>Glycine max</i> , <i>Malus domestica</i> , <i>Morus notabilis</i> , <i>Prunus dulcis</i> , <i>Raphanus sativus</i> , <i>Spinacia oleracea</i> , <i>Vitis vinifera</i>
	Species of your interest not listed? <a href="#">Contact us</a>
<b>Not reactive in</b>	<i>Lemna minor</i> , <i>Zea mays</i>
<b>Selected references</b>	To be added when available, antibody available in November 2021.



Left panel: epidermal layer of the root shown polar PIN2 localization.

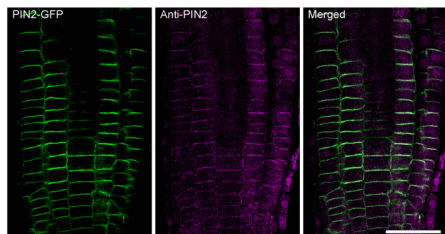
Right panel: The PIN2 signals were restricted only to cortex, epidermis and root caps.

Material: *Arabidopsis thaliana* young seedling-5-day-old roots.Fixation: 2 % Formaldehyde in Microtubule-stabilizing buffer stock solution (50 mM PIPES, 5 mM EGTA, 2 mM MgSO<sub>4</sub>, 0.4 % Triton), vacuum for 3 min. and fixation conducted for 40 min.Washing buffer: Microtubule-stabilizing buffer stock solution (50 mM PIPES, 5 mM EGTA, 2 mM MgSO<sub>4</sub>, 0.4 % Triton)

Primary antibody: 1: 200

Secondary antibody: anti-rabbit (1:250): (Rhodamine Red™-X (RRX) AffiniPure Donkey Anti-Rabbit IgG (H+L)/Jackson ImmunoResearch/ Cat# 711-295-152)

And the unique signal pattern colocalized with PIN2-GFP marker line (in green). The PIN2 signal is not visible in the middle of a root tissue, where PIN2 protein does not occur (negative control).



Material: *Arabidopsis thaliana* young seedling-5-day-old roots.

Fixation: 4 % Formaldehyde in 1×Phosphate buffered saline (PBS) (4g NaCl, 0.115g NaH<sub>2</sub>PO<sub>4</sub>•H<sub>2</sub>O, 0.695g Na<sub>2</sub>HPO<sub>4</sub>•2H<sub>2</sub>O, 0.1g KCl in 1L ddH<sub>2</sub>O, pH 7.4) supplement with 0.1% TritonX, vacuum for 1 hour, and fixation conducted for 1 hour.

Washing buffer: 1×Phosphate buffered saline (PBS)

Blocking buffer: 3% BSA (Carl Roth, cat. No. 8076.3) in 1×PBS

Primary antibody: 1: 500 ON/4°C

Secondary antibody: anti-rabbit (1:500), Alexa Fluor 568 (Invitrogen, A11011).

Courtesy SHEN Jinbo Zhejiang Agricultural & Forestry University, Hangzhou, Zhejiang, China