Agrisera
Part of Olink® Group

This product is **for research use only** (not for diagnostic or therapeutic use) **contact: support@agrisera.com**

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

Product no AS20 4521

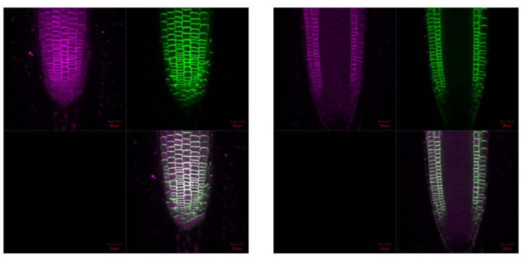
Anti-PIN2 | Auxin efflux carrier component 2 (polyclonal)

Product information

Immunogen	KLH-conjugated mixture of two synthetic peptides derived from AtPIN2 sequence, UniProt:Q9LU77, TAIR:At5g57090
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.

Application information

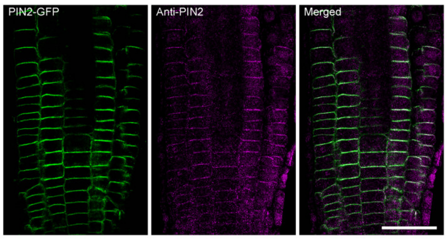
Recommended dilution	1 : 200 (IL)
Expected | apparent MW	69.3 kDa
Confirmed reactivity	*Arabidopsis thaliana*
Predicted reactivity	*Beta vulgaris, Brassica napus, Camelina sativa, Cannabis sativa, Capsella rubella, Cucumis melo, Eucalyptus grandis, Eutrema salsugineum, Glycine max, Malus domestica, Morus notabilis, Prunus dulcis, Raphanus sativus, Spinacia oleracea, Vitis vinifera* Species of your interest not listed? Contact us
Not reactive in	*Lemna minor, Zea mays*
Selected references	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: *Arabidopsist thaliana* young seedling-5-day-old roots.
Fixation: 2 % Formaldehyde in Microtuble-stabilizing buffer stock solution (50 mM PIPES, 5 mM EGTA, 2 mM $MgSO_4$, 0.4 % Triton), vacuum for 3 min. and fixation conducted for 40 min.
Washing buffer: Microtuble-stabilizing buffer stock solution (50 mM PIPES, 5 mM EGTA, 2 mM $MgSO_4$, 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: *Arabidopsist thaliana* young seedling-5-day-old roots.
Fixation: 4 % Formaldehyde in 1×Phosphate buffered saline (PBS) (4g NaCl, 0.115g NaH2PO4•H2O, 0.695g Na2HPO4•2H2O, 0.1g KCl in 1L ddH2O, 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)
Blcoking buffer: 3% BSA (Carl Roth, cat. No. 8076.3) in 1×PBS
Primary antibody: 1: 500 ON/4ºC
Secondary antibody: anti-rabbit (1:500), Alexa Fluor 568 (Invitrogen, A11011).

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