

Product: Anti-AtPIN2 (presumptive auxin efflux carrier PIN2)

Product no: AS05 069

Product Information

Antibody clonality: Polyclonal

Raised in: Hen

Purity: Affinity purified hen IgY in PBS pH 8+
0.02 % sodium azide

Quantity: 200 µg

Antibody form: Lyophilized. For reconstitution please add 200 µl of sterile water. Add glycerol to a final 50 % and store at -20°C up to one year.
Please, remember to spin tubes briefly prior to opening them to avoid any losses that might occur from liquid or lyophilized material adhering to the cap or sides of the tubes.

Storage instructions: -20°C long term storage
Please, avoid freezing and thawing of antibodies. Make aliquots instead.

Background

Arabidopsis thaliana, putative auxin efflux carrier component – AtPIN2 (coded by the *AtPIN2* gene, also known as *EIR1* and *AGR1*). AtPIN proteins are asymmetrically localized within plant plasma membranes, providing a molecular mechanism for the characteristic polarity of auxin transport. AtPIN2 is a key mediator of the response of *Arabidopsis* roots to gravity, by establishment of a transient auxin gradient in the root meristem, resulting in differential cell elongation.

Immunogen: The antiserum was raised against AtPIN2 specific peptides and tested for specificity in a *pin2* T-DNA insertion mutant background (S. Men and M. Grebe, unpublished results).

References: Men et al (2008). Sterol-dependent endocytosis mediates post-cytokinetic acquisition of PIN2 auxin efflux carrier polarity. *Nature Cell Biology* Vol. 10, Number 2

Application information:

Immunohistochemistry: 1: 300 - 1: 600

Specific PIN2 signal in epidermis lateral root cap and cortex cells. Cross-reaction with another protein in columella initials.

Western Blot: 1: 100, weak reactivity

MW: 69 kDa

Antibodies are intended for the research use only not for diagnostic or therapeutic use.

Distributor



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Inspiration for Life Science

TOYO 2CHOME, KOTO-KU, TOKYO, 135-0016, JAPAN
URL: <http://www.cosmobio.co.jp> e-mail: export@cosmobio.co.jp

[Outside Japan]

[国内連絡先]

Phone : +81-3-5632-9617

Phone : +81-3-5632-9610

FAX : +81-3-5632-9618

FAX : +81-3-5632-9619

Mailing address: Box 57, S-911 21 Vannas, Sweden
Phone/Fax: +46(0)935-33033/+46(0)935-33044