

# PIN2 Rabbit pAb

Catalog No.: A22253

## Basic Information

### Observed MW

### Calculated MW

69kDa

### Category

Primary antibody

### Applications

WB,ELISA

### Cross-Reactivity

Arabidopsis thaliana

## Background

Encodes an auxin efflux carrier that is similar to bacterial membrane transporters. Root-specific role in the transport of auxin. Acts downstream of CTR1 and ethylene biosynthesis, in the same pathway as EIN2 and AUX1, and independent from EIN3 and EIN5/AIN1 pathway. In the root, the protein localizes apically in epidermal and lateral root cap cells and predominantly basally in cortical cells. Functions may be regulated by phosphorylation status. EIR1 expression is induced by brassinolide treatment in the brassinosteroid-insensitive br1 mutant. Gravistimulation resulted in asymmetric PIN2 distribution, with more protein degraded at the upper side of the gravistimulated root. Protein turnover is affected by the proteasome and by endosomal cycling. Plasma membrane-localized PIN proteins mediate a saturable efflux of auxin. PINs mediate auxin efflux from mammalian and yeast cells without needing additional plant-specific factors. The action of PINs in auxin efflux is distinct from PGP, rate-limiting, specific to auxins and sensitive to auxin transport inhibitors. Membrane sterol composition is essential for the acquisition of PIN2 polarity.

## Recommended Dilutions

WB 1:500 - 1:2000

ELISA Recommended starting concentration is 1 µg/mL. Please optimize the concentration based on your specific assay requirements.

## Immunogen Information

### Gene ID

835813

### Swiss Prot

Q9LU77

### Immunogen

Recombinant protein (or fragment). This information is considered to be commercially sensitive.

### Synonyms

AGR; AGR1; AGRAVITROPIC ROOT; AGRAVITROPIC ROOT 1; ARABIDOPSIS THALIANA PIN-FORMED 2; ATPIN2; AUXIN TRANSPORT PROTEIN EIR1; ETHYLENE INSENSITIVE ROOT 1; MM31; MUL3.3; MUL3\_3; PIN-FORMED 2; PIN2; POLAR-AUXIN-TRANSPORT EFFLUX COMPONENT AGRAVITROPIC 1; WAV6; WAVY ROOTS 6

## Contact

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## Product Information

### Source

Rabbit

### Isotype

IgG

### Purification

Affinity purification

### Storage

Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.