

SPINDLY (aC-20): sc-12680

BACKGROUND

The five integral families of plant hormones consists of auxins, cytokinins, gibberellins (GAs), abscisic acid (ABA), and ethylene. Gibberellins, which consist of over fifty family members, mediate shoot growth. In *Arabidopsis thaliana*, SPINDLY (SPY) negatively regulates GA signal transduction. ERA1 (enhanced response to abscisic acid), which is identical to WIGGUM, controls floral and shoot apical meristem size and floral organ number in response to ABA. Ethylene is perceived by a family of five receptors, one of which is ETR1, whereas CTR1 is a negative regulator of the ethylene signal transduction pathway. Ethylene is also produced endogenously in *Arabidopsis thaliana* via a biosynthetic pathway, which is catalyzed by ACC synthase and ACC oxidase.

REFERENCES

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3. Jacobsen, S.E., Olszewski, N.E., and Meyerowitz, E.M. 1998. SPINDLY's role in the gibberellin response pathway. *Symp. Soc. Exp. Biol.* 51: 73-78.
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SOURCE

SPINDLY (aC-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of SPINDLY of *Arabidopsis thaliana* origin.

PRODUCT

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-12680 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SPINDLY (aC-20) is recommended for detection of SPINDLY of *Arabidopsis thaliana* origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.