



SUP (aC-17): sc-12613

BACKGROUND

Shoot apical meristems develop into floral meristems, which initiate flowering in response to internal or external signals. In a floral meristem, a cell's fate is determined by its relative position within the meristem and by the expression of specific regulatory proteins. The pattern that develops is a determinate series of four floral whorls, which consists of sepals, petals, stamens, and carpels. Several MADS-box regulatory proteins, including *Apetala* (AP) 1, 2 and 3, *Cauliflower* (CAL), *Terminal Flower 1* (TFL1), *Leafy* (LFY), *Superman* (SUP), and *Agamous* (AG), overlap in expression and function to specify each floral whorl. For instance, *Agamous* expression promotes the development of stamens and carpels. Additionally, *Superman* is required for the proper spatial development of reproductive tissue, illustrated by the development of an additional whorl of stamens at the expense of carpels in SUP mutants.

REFERENCES

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4. Lawton-Rauh, A.L., Buckler, E.S. 4th, and Purugganan, M.D. 1999. Patterns of molecular evolution among paralogous floral homeotic genes. *Mol. Biol. Evol.* 16: 1037-1045.
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SOURCE

SUP (aC-17) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of SUP 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-12613 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

SUP (aC-17) is recommended for detection of SUP 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.