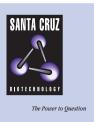
SANTA CRUZ BIOTECHNOLOGY, INC.

AP2 (aN-14): sc-12633



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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SOURCE

AP2 (aN-14) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the N-terminus of AP2 of *Arabidopsis thaliana* origin.

PRODUCT

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

Blocking peptide available for competition studies, sc-12633 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

AP2 (aN-14) is recommended for detection of AP2 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) Immunofluo-rescence: 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.