



# cyclin $\delta$ -1 (aS-20): sc-12786

## BACKGROUND

The cell cycle in *Arabidopsis thaliana* mediates organ morphogenesis, cell proliferation and differentiation, and these functions are restricted to the meristems. The cell cycle is controlled by cyclin-dependent kinases, which bind to positive regulators called cyclins. In particular, *Arabidopsis* B-type cyclin controls cell cycle progression by regulating gene expression late in the G<sub>2</sub> and M phases. Expression of cyclin Ds have been shown to increase in response to sucrose. Cdc2 and Cdc2B control cell cycle progression after forming a complex with cyclin. Prolifera and pelota are required for DNA replication and meiotic cell division, respectively.

## REFERENCES

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## SOURCE

cyclin  $\delta$ -1 (aS-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of cyclin  $\delta$ -1 of *Arabidopsis thaliana* origin.

## PRODUCT

Each vial contains 200  $\mu$ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-12786 P, (100  $\mu$ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

## APPLICATIONS

cyclin  $\delta$ -1 (aS-20) is recommended for detection of cyclin  $\delta$ -1 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](http://www.scbt.com) or our catalog for detailed protocols and support products.