CLV2 (aN-18): sc-12594



The Power to Question

BACKGROUND

The shoot and root meristems of higher plants are multicellular structures that initiate postembryonic organogenesis. Meristems maintain their size and structure by coordinating organ initiation with stem cell renewal. In the shoot meristem, WUSCHEL is responsible for stem cell identity, while CLV1, CLV2 and CLV3 promote organ initiation, which leads to the formation of leaves and inflourescences. In the root meristem, asymmetric cell division is required for the formation of ground tissue, which is mediated by the SHORT-ROOT (SHR) protein and the radial patterning in the root, hypocotyl and inflourescences, which is mediated by SCARECROW (SCR).

REFERENCES

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SOURCE

CLV2 (aN-18) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of CLV2 of *Arabidopsis thaliana* origin.

STORAGE

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

PROTOCOLS

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

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-12594 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CLV2 (aN-18) is recommended for detection of CLV2 of *Arabidopsis thaliana*, *Lycopersicon esculentum* and *Nicotiana tabacum* 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) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

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

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