ZTL (aH-20): sc-12660



The Power to Question

BACKGROUND

Arabidopsis development is mediated by several environmental stimuli. Light plays an important role in many developmental processes, including photosynthesis, chloroplast biogenesis, leaf initiation, and floral induction. Several light sensitive proteins are thought to mediate the transition from vegetative to floral development in response to photoperiods. CONSTANS (CO) promotes flowering in response to long photoperiods. When CONSTANS is mutated, flowering is delayed during long photoperiods, but is not affected during short photoperiods. ZEITLUPE (ZTL) and FKF1 influence flowering by modulating the circadian clock in *Arabidopsis*.

REFERENCES

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- Nelson, D.C., Lasswell, J., Rogg, L.E., Cohen, M.A., and Bartel, B. 2000. FKF1, a clock-controlled gene that regulates the transition to flowering in *Arabidopsis*. Cell 101: 331-340.

SOURCE

ZTL (aH-20) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of ZTL 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-12660 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

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.

APPLICATIONS

ZTL (aH-20) is recommended for detection of ZTL 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.

PROTOCOLS

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

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