



FLS2 (aN-16): sc-14070

BACKGROUND

Plants promote resistance to pathogens by either eliciting an active defense by initiating the transcription of several resistance (R) genes or by utilizing post-transcriptional gene silencing (PTGS). PTGS results in the specific degradation of transgenic mRNA following transcription, which either have a high rate of transcription or where the transgenic locus is between inverted repeats. PTGS is a phenomenon similar to that of quelling in fungi and RNA interference (RNAi) in animals. SGS2 and SGS3 (for suppressor of gene silencing) control PTGS in *Arabidopsis thaliana*, and SGS2 and SGS3 mutants display enhanced susceptibility to cucumovirus CMV. Alternatively, FLS2 is an R gene involved in the recognition of flagellin, the main protein of the bacterial flagella, and subsequently, activates the defense response in *Arabidopsis thaliana*. FLS2 contains an extracellular leucine-rich repeat (LRR) similar to other R genes, a transmembrane domain and a cytoplasmic serine/threonine kinase domain, which is required for proper binding of flagellin.

REFERENCES

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SOURCE

FLS2 (aN-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the N-terminus of FLS2 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-14070 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

FLS2 (aN-16) is recommended for detection of FLS2 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.