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RAD51 (N) Antibody, Rabbit Polyclonal

Cat#: R3417-1

Quantity: 100 ul

Predicted | Observed M.W.: 37 kDa

Lot#: Refer to vial

Application: WB

Uniprot ID: P94102

Background:

RAD51 binds to single and double-stranded DNA and exhibits DNA-dependent ATPase activity. RAD51 is a component of the meiotic recombination pathway. RAD51 seems to play a role in mediating chromosome homology search, chromosome pairing and synapsis at early stages and probably chromosome crossing-over at later stages in meiosis. RAD51 is probably involved in the repair of meiotic double strand breaks (DBSs) generated by AtSPO11-1 and in homologous recombination. Its function is dispensable for vegetative growth and root mitosis.

Other Names:

DNA repair protein RAD51 homolog 1, Rad51-like protein 1, AtRAD51, At5g20850, F22D1.20

Source and Purity:

Rabbit polyclonal antibodies were produced by immunizing animals with a GST-fusion protein containing the N-terminal region of *arabidopsis thaliana* RAD51 (AT5G20850). Antibodies were purified by affinity purification using immunogen.

Storage Buffer and Condition:

Supplied in 1 x PBS (pH 7.4), 100 ug/ml BSA, 40% Glycerol, 0.01% NaN₃. Store at -20 °C. Stable for 6 months from date of receipt.

Species Specificity:

Arabidopsis thaliana

Tested Applications:

WB: 1:500-1:2,000 (detect endogenous protein*)

*: The apparent protein size on WB may be different from the calculated M.W. due to modifications.

Product Data:

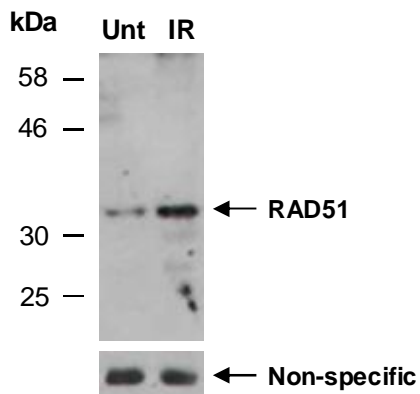


Fig 1. Western blot analysis of total protein extracts from wild type arabidopsis leaves, untreated (Unt) or γ -irradiated for 1 h (IR); using anti-RAD51 (N) (R3417-1) at RT for 2 h. The same filter was re-probed with a non-relevant Ab for the loading control.