

Rad17 (P-19): sc-9377

BACKGROUND

DNA damage results in the arrest of cell cycle progression, allowing the damaged DNA to be repaired prior to replication. Checkpoints exist at several cell cycle phase transitions to maintain this genetic integrity. Rad9, Rad17, Rad24 and Mec3 are involved in activating the G₁ and G₂ checkpoints. Pol2 (also known as Dun2), encoding the catalytic subunit of DNA polymerase epsilon, plays a role in activating the S phase checkpoint. The protein kinase Rad53 (also designated Spk1, Mec2 or Sad1) is essential for both G₂ and S phase arrest. Activation of Rad53 is regulated by Mec1 (also known as Esr1 and Sad3), a homolog of the human ATM protein. Pds1 and Mad2 both regulate checkpoints associated with incomplete spindle replication. Dun1, another protein kinase, plays a role in transducing the DNA damage signal.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: RAD17 (human) mapping to 5q13.2; Rad17 (mouse) mapping to 13 D1.

SOURCE

Rad17 (P-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping near the C-terminus of Rad17 of human 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-9377 P, (100 µg peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

Rad17 (P-19) is recommended for detection of Rad17 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], 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).

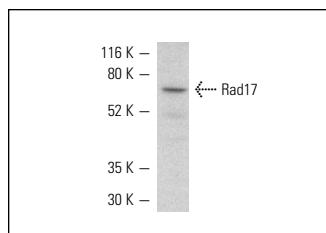
Rad17 (P-19) is also recommended for detection of Rad17 in additional species, including equine and bovine.

Suitable for use as control antibody for Rad17 siRNA (h): sc-36358, Rad17 siRNA (m): sc-36359, Rad17 shRNA Plasmid (h): sc-36358-SH, Rad17 shRNA Plasmid (m): sc-36359-SH, Rad17 shRNA (h) Lentiviral Particles: sc-36358-V and Rad17 shRNA (m) Lentiviral Particles: sc-36359-V.

Molecular Weight of Rad17: 75 kDa.

Positive Controls: HeLa nuclear extract: sc-2120, Jurkat nuclear extract: sc-2132 or K-562 nuclear extract: sc-2130.

DATA



Rad17 (P-19): sc-9377. Western blot analysis of Rad17 expression in Jurkat nuclear extract.

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.


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Try **Rad17 (H-3): sc-17761**, our highly recommended monoclonal alternative to Rad17 (P-19).