

RAD51AP1 (m): 293T Lysate: sc-122939

BACKGROUND

Homologous recombination is essential for tumor suppression and chromosome damage repair. RAD51AP1 (Rad51 associated protein 1), also known as PIR51, is a 352 amino acid protein known to activate homologous recombination and double-strand break repair in the DNA damage response pathway. RAD51AP1 binds both RNA and DNA, has the ability to aggregate DNA and undergoes post-translational phosphorylation upon DNA damage. While highly expressed in thymus and testis, lower levels of RAD51AP1 have been found in small intestine and colon. RAD51AP1 may be involved in cell proliferation and while multiple splice variants of RAD51AP1 are known to exist, only three isoforms have been characterized. RAD51AP1 isoform 2 colocalizes with Rad51 to multiple nuclear foci.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: Rad51ap1 (mouse) mapping to 6 F3.

PRODUCT

RAD51AP1 (m): 293T Lysate represents a lysate of mouse RAD51AP1 transfected 293T cells and is provided as 100 µg protein in 200 µl SDS-PAGE buffer.

STORAGE

Store at -20° C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

APPLICATIONS

RAD51AP1 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive RAD51AP1 antibodies. Recommended use: 10-20 µl per lane.

Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

RESEARCH USE

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

PROTOCOLS

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