Product Name: Rad54 Rabbit Polyclonal Antibody
Catalog #: APRab16849

Summary

Production Name	Rad54 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB
Reactivity	Human,Mouse

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	RAD54L
Alternative Names	RAD54L; RAD54A; DNA repair and recombination protein RAD54-like; RAD54 homolog; hHR54; hRAD54
Gene ID	8438.0
SwissProt ID	Q92698.The antiserum was produced against synthesized peptide derived from human RAD54L. AA range:221-270

Application

Dilution Ratio	WB 1:500-1:2000. ELISA: 1:5000.
Molecular Weight	85kD

Background

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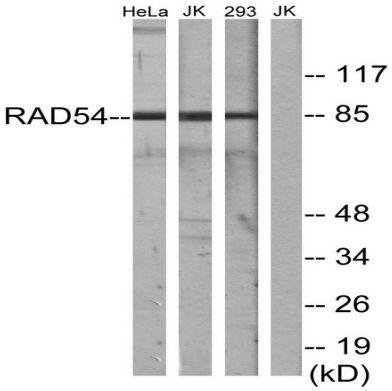
The protein encoded by this gene belongs to the DEAD-like helicase superfamily, and shares similarity with Saccharomyces cerevisiae Rad54, a protein known to be involved in the homologous recombination and repair of DNA. This protein has been shown to play a role in homologous recombination related repair of DNA double-strand breaks. The binding of this protein to double-strand DNA induces a DNA topological change, which is thought to facilitate homologous DNA paring, and stimulate DNA recombination. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq, Dec 2008],disease:Defects in RAD54L may be a cause of tumor formation. Although alterations are found in a small fraction of primary tumors, these findings provide new insight into genetic instability underlying carcinogenesis.,function:Involved in DNA repair and mitotic recombination. Functions in the recombinational DNA repair (RAD52) pathway. Dissociates RAD51 from nucleoprotein filaments formed on dsDNA. Could be involved in the turnover of RAD51 protein-dsDNA filaments (By similarity). May play also an essential role in telomere length maintenance and telomere capping in mammalian cells.,induction:Expression increases approximately 3-fold in late G1 phase compared to other phases of the cell cycle.,similarity:Belongs to the SNF2/RAD54 helicase family.,similarity:Contains 1 helicase ATP-binding domain.,similarity:Contains 1 helicase C-terminal domain.,subunit:Interacts with RAD51 through the NH2-terminal domain.,

Research Area

Homologous recombination;

Image Data



Western blot analysis of lysates from HeLa cells, Jurkat cells, and 293 cells, using RAD54 Antibody. The lane on the right is blocked with the synthesized peptide.

Note

For research use only.