



Rabbit Anti-RAD54B antibody

SL5940R

Product Name:	RAD54B
Chinese Name:	DNA修复和重组蛋白RAD54B抗体
Alias:	DNA repair and recombination protein RAD54B; Fibrinogen silencer binding protein; FSBP; RAD54 homolog B; RA54B_HUMAN.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Cow,Horse,Rabbit,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	103kDa
Cellular localization:	The nucleus
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human RAD54B:821-910/910
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	The protein encoded by this gene belongs to the DEAD-like helicase superfamily. It shares similarity with Saccharomyces cerevisiae RAD54 and RDH54, both of which are involved in homologous recombination and repair of DNA. This protein binds to double-stranded DNA, and displays ATPase activity in the presence of DNA. This gene is highly expressed in testis and spleen, which suggests active roles in meiotic and mitotic recombination. Homozygous mutations of this gene were observed in primary

lymphoma and colon cancer.

Function:

Involved in DNA repair and mitotic recombination. May play an active role in recombination processes in concert with other members of the RAD52 epistasis group.

Subunit:

Interacts with RAD51 through the NH2-terminal domain. Immunoprecipitation experiments show that the interaction is constitutive and not induced by ionizing radiation. The interaction may be indirect.

Subcellular Location:

Nucleus (Probable).

Tissue Specificity:

Abundantly expressed in testis and spleen. Relatively low levels observed in thymus, prostate, ovary and colon.

Similarity:

Belongs to the SNF2/RAD54 helicase family.
Contains 1 helicase ATP-binding domain.
Contains 1 helicase C-terminal domain.

SWISS:

Q9Y620

Gene ID:

25788

Database links:

[Entrez Gene: 25788](#)Human

[Entrez Gene: 623474](#)Mouse

[Omim: 604289](#)Human

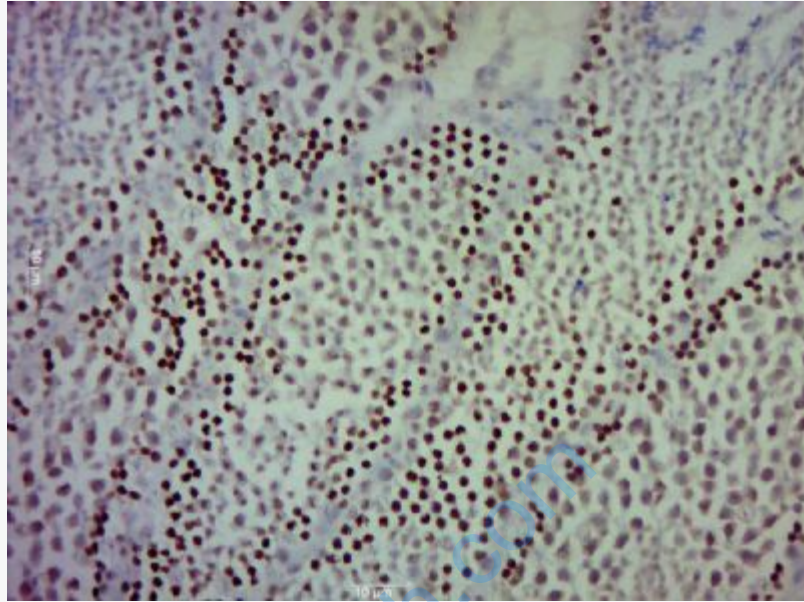
[SwissProt: Q9Y620](#)Human

[SwissProt: Q6PFE3](#)Mouse

[Unigene: 30561](#)Human

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.



Picture:

Paraformaldehyde-fixed, paraffin embedded (Mouse testis); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (RAD54B) Polyclonal Antibody, Unconjugated (SL5940R) at 1:500 overnight at 4°C, followed by a conjugated secondary (sp-0023) for 20 minutes and DAB staining.