

## Rad54B Polyclonal Antibody

<b>Catalog No :</b>	YT3971
<b>Reactivity :</b>	Human;Rat;Mouse;
<b>Applications :</b>	IHC;IF;ELISA
<b>Target :</b>	Rad54B
<b>Fields :</b>	>>Homologous recombination
<b>Gene Name :</b>	RAD54B
<b>Protein Name :</b>	DNA repair and recombination protein RAD54B
<b>Human Gene Id :</b>	25788
<b>Human Swiss Prot No :</b>	Q9Y620
<b>Mouse Swiss Prot No :</b>	Q6PFE3
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human RAD54B. AA range:241-290
<b>Specificity :</b>	Rad54B Polyclonal Antibody detects endogenous levels of Rad54B protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	IHC 1:100 - 1:300. ELISA: 1:10000.. IF 1:50-200
<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)

**Molecularweight :** 103kD

**Cell Pathway :** Homologous recombination;

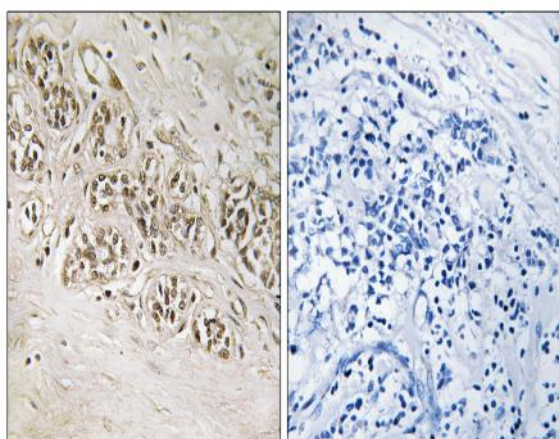
**Background :** The RAD54 homolog B encoded by RAD54B belongs to the DEAD-like helicase superfamily. It shares similarity with *Saccharomyces cerevisiae* RAD54 and RDH54, both of which are involved in homologous recombination and repair of DNA. This protein binds to double-stranded DNA, and displays 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 :** M phase, double-strand break repair via homologous recombination, recombinational repair, DNA metabolic process, DNA repair, double-strand break repair, DNA recombination, mitotic recombination, response to DNA damage stimulus, cell cycle, meiosis, meiosis I, reciprocal meiotic recombination, response to radiation, response to abiotic stimulus, response to ionizing radiation, cell cycle process, cell cycle phase, cellular response to stress, response to drug, regulation of transcription, meiotic cell cycle, M phase of meiotic cell cycle,

**Subcellular Location :** Nucleus .

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

## Products Images



Immunohistochemistry analysis of paraffin-embedded human breast carcinoma, using RAD54B Antibody. The picture on the right is blocked with the synthesized peptide.