RAD54B Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RAD54B, Polyclonal Antibody
Full Product Name	RAD54B (DNA Repair and Recombination Protein RAD54B, 364-, RAD54 Homolog B, RAD54B) (MaxLight 750)
Product Gene Name	anti-RAD54B antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight750.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human RAD54B. Species Crossreactivity: human
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight750 conjugates are sensitive to light. For maximum recovery of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	102,967 Da
Chromosome Location	Chromosome: 8; NC_000008.10 (95384188..95487343, complement). Location: 8q22.1
OMIM	604289
3D Structure	ModBase 3D Structure for Q9Y620
Immunogen	KLH conjugated synthetic peptide corresponding to aa68-102 at the N-terminal region of human RAD54B.
Conjugate	MaxLight750
Note	Preservative Free
Product Categories/Family for anti-RAD54B antibody	Antibodies; DNA Replication; Repair
Applications Tested/Suitable for anti-RAD54B antibody	Western Blot (WB)
Application Notes for anti-RAD54B antibody	WB: 1:2000 Applications are based on unconjugated antibody.
Related Product Information for anti-RAD54B antibody	MBS6458635 is an antibody targeting RAD54B. Also known as RAD54B (DNA Repair and Recombination Protein RAD54B, 364-, RAD54 Homolog B, RAD54B) (MaxLight 750). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-RAD54B antibody	Hiramoto T., et al. Oncogene 18:3422-3426(1999). Li W.B., et al. Submitted (JAN-2003) to the EMBL/GenBank/DDBJ databases. Nusbaum C., et al. Nature 439:331-335(2006). Tanaka K., et al. J. Biol. Chem. 275:26316-26321(2000). Miyagawa K., et al. EMBO J. 21:175-180(2002).
Other Notes	Small volumes of anti-RAD54B antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RAD54B. It may not necessarily be applicable to this product.

NCBI GI #	327532753
NCBI GeneID	25788
NCBI Accession #	NP_001192192.1
UniProt Primary Accession #	Q9Y620
UniProt Secondary Accession #	F6WBS8
UniProt Related Accession #	Q9Y620
GenBank Nucleotide #	NM_001205263.1
NCBI Official Full Name	DNA repair and recombination protein RAD54B isoform 3
NCBI Official Synonym Full Names	RAD54 homolog B (S. cerevisiae)
NCBI Official Symbol	RAD54B
NCBI Official Synonym Symbols	RDH54
UniProt Protein Name	DNA repair and recombination protein RAD54B
UniProt Synonym Protein Names	RAD54 homolog B
Protein Family	DNA repair and recombination protein
UniProt Gene Name	RAD54B
UniProt Entry Name	RA54B_HUMAN
NCBI Protein Information	DNA repair and recombination protein RAD54B
NCBI Summary for RAD54B	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. [provided by RefSeq, Jul 2008]
UniProt Comments for RAD54B	RAD54B: 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. Belongs to the SNF2/RAD54 helicase family. Protein type: EC 3.6.1.-; EC 3.6.4.-; Helicase; DNA repair, damage Chromosomal Location of Human Ortholog: 8q22.1 Cellular Component: nucleus Molecular Function: DNA helicase activity; DNA binding; DNA translocase activity; RNA helicase activity; ATP binding Biological Process: mitotic recombination; meiotic recombination; DNA duplex unwinding; double-strand break repair via homologous recombination Disease: Lymphoma, Non-hodgkin, Familial
Research Articles on RAD54B	**1.** These results suggest that hINO80 assists double-strand break repair by positively regulating the expression of the Rad54B and XRCC3 genes.

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