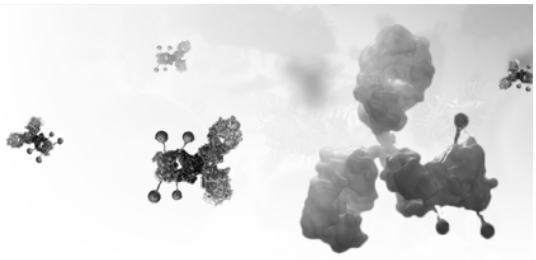

Human RAD51B peptide (DAG-P1808)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	The protein encoded by this gene is a member of the RAD51 protein family. RAD51 family members are evolutionarily conserved proteins essential for DNA repair by homologous recombination. This protein has been shown to form a stable heterodimer with the family member RAD51C, which further interacts with the other family members, such as RAD51, XRCC2, and XRCC3. Overexpression of this gene was found to cause cell cycle G1 delay and cell apoptosis, which suggested a role of this protein in sensing DNA damage. At least three alternatively spliced transcript variants encoding distinct isoforms have been observed. Rearrangements between this locus and high mobility group AT-hook 2 (HMGA2, GeneID 8091) have been observed in uterine leiomyomata. [provided by RefSeq, Jul 2011]
Specificity	Expressed in a wide range of tissues.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the RecA family. RAD51 subfamily.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	RAD51B RAD51 paralog B [Homo sapiens (human)]
Official Symbol	RAD51B

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Synonyms	RAD51B; RAD51 paralog B; REC2; R51H2; RAD51L1; DNA repair protein RAD51 homolog 2; RAD51 homolog B; RecA-like protein; recombination repair protein;
Entrez Gene ID	5890
mRNA Refseq	NM_002877.5
Protein Refseq	NP_002868.1
UniProt ID	O15315
Chromosome Location	14q23-q24.2
Pathway	Factors involved in megakaryocyte development and platelet production, organism-specific biosystem; Hemostasis, organism-specific biosystem; Homologous recombination, organism-specific biosystem; Homologous recombination, conserved biosystem;
Function	ATP binding; DNA binding; DNA-dependent ATPase activity; double-stranded DNA binding; contributes_to four-way junction DNA binding; protein binding; single-stranded DNA binding;

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