Product Name: Rad51B Rabbit Polyclonal Antibody
Catalog #: APRab16843

Summary

Production Name	Rad51B Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA
Reactivity	Human,Mouse,Monkey

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	RAD51B
Alternative Names	RAD51B; RAD51L1; REC2; DNA repair protein RAD51 homolog 2; R51H2; RAD51 homolog B; Rad51B; RAD51-like protein 1
Gene ID	5890.0
SwissProt ID	O15315.The antiserum was produced against synthesized peptide derived from human RAD51L1. AA range:201-250

Application

Dilution Ratio	WB 1:500-1:2000, IHC-P 1:100-1:300, ELISA 1:40000, IF-P/IF-F/ICC/IF 1:50-200
Molecular Weight	45kDa

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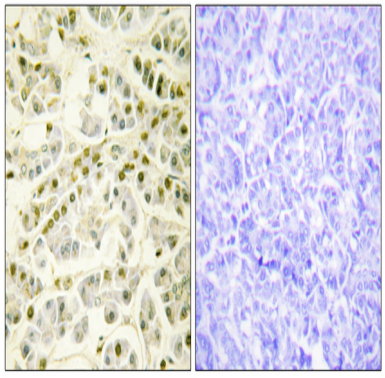
Background

RAD51 paralog B(RAD51B) Homo sapiens 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. Rearrangements between this locus and high mobility group AT-hook 2 (HMGA2, GeneID 8091) have been observed in uterine leiomyomata. [provided by RefSeq, Mar 2016],disease:A chromosomal aberration involving RAD51L1 is found in pulmonary chondroid hamartoma. Translocation t(6;14)(p21;q23-24) with HMGA1.,disease:A chromosomal aberration involving RAD51L1 is found in uterine leiomyoma (UL) [MIM:150699]. Translocation t(12;14)(q15;q23-24) with HMGA2.,function:Involved in the homologous recombination repair (HRR) pathway of double-stranded DNA breaks arising during DNA replication or induced by DNA-damaging agents. May promote the assembly of presynaptic RAD51 nucleoprotein filaments. The RAD51B-RAD51C dimer exhibits single-stranded DNA-dependent ATPase activity. The BCDX2 complex binds single-stranded DNA, single-stranded gaps in duplex DNA and specifically to nicks in duplex DNA.,similarity:Belongs to the recA family. RAD51 subfamily.,subunit:Interacts with RAD51C. Part of a BCDX2 complex consisting of RAD51B, RAD51C, RAD51D and XRCC2. Part of a complex consisting of RAD51B, RAD51C, RAD51D, XRCC2 and XRCC3. Part of a complex with RAD51C and RAD51.,tissue specificity:Expressed in a wide range of tissues.,

Research Area

Homologous recombination;

Image Data



Immunohistochemistry analysis of paraffin-embedded human pancreas tissue, using RAD51L1 Antibody. The picture on the right is blocked with the synthesized peptide.

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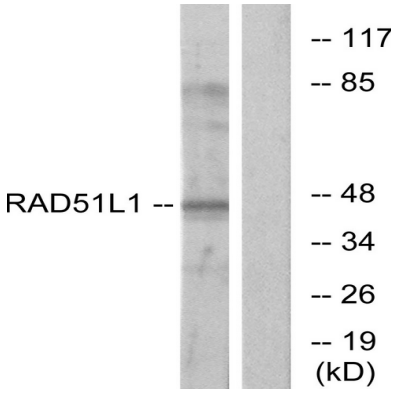

Western blot analysis of lysates from COS7 cells, using RAD51L1 Antibody. The lane on the right is blocked with the synthesized peptide.

Note

For research use only.