Best Tools for immunology Research

Rad51B Polyclonal Antibody

Catalog No :	YT3966
Reactivity :	Human;Mouse;Monkey
Applications :	WB;IHC;IF;ELISA
Target :	Rad51B
Fields :	>>Homologous recombination
Gene Name :	RAD51B
Protein Name :	DNA repair protein RAD51 homolog 2
Human Gene Id :	5890
Human Swiss Prot No :	O15315
Mouse Gene Id :	19363
Mouse Swiss Prot No :	O35719
Immunogen :	The antiserum was produced against synthesized peptide derived from human RAD51L1. AA range:201-250
Specificity :	Rad51B Polyclonal Antibody detects endogenous levels of Rad51B protein.
Formulation :	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source :	Polyclonal, Rabbit,IgG
Dilution :	WB 1:500 - 1:2000. IHC 1:100 - 1:300. ELISA: 1:40000.. IF 1:50-200
Purification :	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration :	1 mg/ml

Storage Stability : -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band : 45kD

Cell Pathway : Homologous recombination;

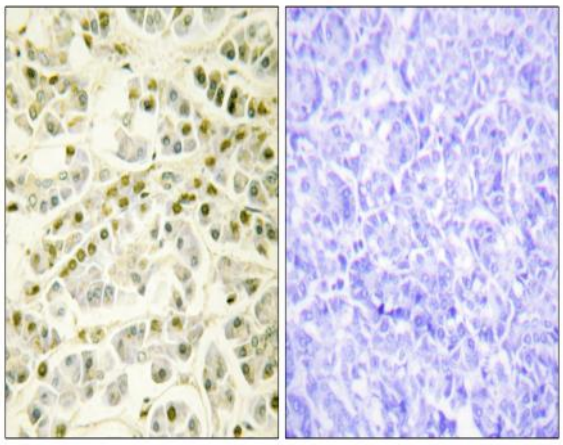
Background : RAD51 paralog B(RAD51B) Homo sapiens The protein encoded by this gene is a member of the RAD51 protein family. RAD51 family members are evolutionarily conserved proteins essential for DNA repair by homologous recombination. This protein has been shown to form a stable heterodimer with the 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],

Function : 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 compl

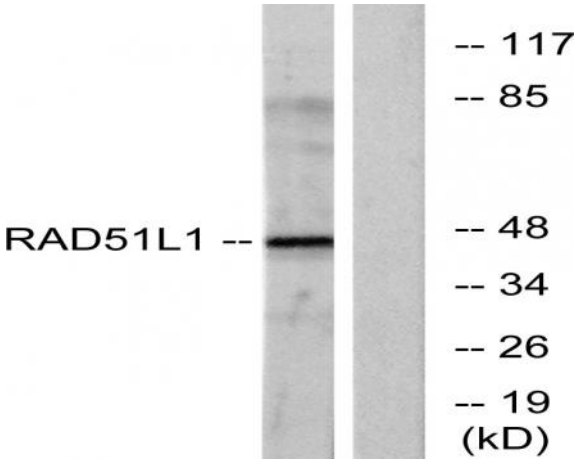
Subcellular Location : Nucleus .

Expression : Expressed in a wide range of tissues.

Products Images



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



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