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RAD51D / RAD51L3 Antibody (N-Term)

Peptide-affinity purified goat antibody
Catalog # AF2289a

Specification

RAD51D / RAD51L3 Antibody (N-Term) - Product Information

Application	**E**
Primary Accession	O75771
Other Accession	NP_002869.3, NP_598332.1, NP_001136043.1, 5892
Predicted	**Human**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**35049**

RAD51D / RAD51L3 Antibody (N-Term) - Additional Information

Gene ID 5892

Other Names
DNA repair protein RAD51 homolog 4, R51H3, RAD51 homolog D, RAD51-like protein 3, TRAD, RAD51D, RAD51L3

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
RAD51D / RAD51L3 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

RAD51D / RAD51L3 Antibody (N-Term) - Protein Information

Name RAD51D

Synonyms RAD51L3

Function
Involved in the homologous recombination repair (HRR) pathway of double-stranded DNA breaks arising during DNA replication or induced by DNA-damaging agents. Bind to single-stranded DNA (ssDNA) and has DNA-dependent ATPase activity. Part of the RAD51 paralog protein complex BCDX2 which acts in the BRCA1-BRCA2-dependent HR pathway. Upon DNA damage, BCDX2 acts

downstream of BRCA2 recruitment and upstream of RAD51 recruitment. BCDX2 binds predominantly to the intersection of the four duplex arms of the Holliday junction and to junction of replication forks. The BCDX2 complex was originally reported to bind single-stranded DNA, single-stranded gaps in duplex DNA and specifically to nicks in duplex DNA. Involved in telomere maintenance. The BCDX2 subcomplex XRCC2:RAD51D can stimulate Holliday junction resolution by BLM.

Cellular Location
Nucleus. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Chromosome, telomere

Tissue Location
Expressed in colon, prostate, spleen, testis, ovary, thymus and small intestine. Weakly expressed in leukocytes

RAD51D / RAD51L3 Antibody (N-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

RAD51D / RAD51L3 Antibody (N-Term) - Images

RAD51D / RAD51L3 Antibody (N-Term) - Background

This antibody is expected to recognise all three human isoforms of this protein.

RAD51D / RAD51L3 Antibody (N-Term) - References

Identification, characterization, and genetic mapping of Rad51d, a new mouse and human RAD51/RecA-related gene. Pittman DL, Weinberg LR, Schimenti JC. Genomics. 1998 Apr 1;49(1):103-11. PMID: 9570954