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RAD51D Antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI14690

Product Information

Application	WB
Primary Accession	O75771
Other Accession	NM_002878, NP_002869
Reactivity	Human, Mouse, Pig, Dog
Predicted	Human, Mouse, Pig, Dog
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35049

Additional Information

Gene ID	5892
Alias Symbol	HsTRAD, R51H3, RAD51D, Trad, TRAD, BROVCA4, RAD51L3
Other Names	DNA repair protein RAD51 homolog 4, R51H3, RAD51 homolog D, RAD51-like protein 3, TRAD, RAD51D, RAD51L3
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-RAD51D antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.
Precautions	RAD51D Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

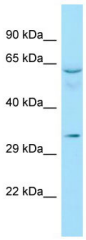
Name	RAD51D
Synonyms	RAD51L3
Function	Involved in the homologous recombination repair (HRR) pathway of double-stranded DNA breaks arising during DNA replication or induced by DNA-damaging agents. Bind to single-stranded DNA (ssDNA) and has DNA-dependent ATPase activity. Part of the RAD51 paralog protein 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

References

Cartwright R.,et al.Nucleic Acids Res. 26:1653-1659(1998).
Pittman D.L.,et al.Genomics 49:103-111(1998).
Kawabata M.,et al.Biochem. Biophys. Res. Commun. 257:156-162(1999).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Zody M.C.,et al.Nature 440:1045-1049(2006).

Images



WB Suggested Anti-RAD51D Antibody Titration: 1.0 µg/ml
Positive Control: Fetal Stomach

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.