

Anti-RAD51C Antibody



Description

This gene is a member of the RAD51 family. RAD51 family members are highly similar to bacterial RecA and *Saccharomyces cerevisiae* Rad51 and are known to be involved in the homologous recombination and repair of DNA. This protein can interact with other RAD51 paralogs and is reported to be important for Holliday junction resolution. Mutations in this gene are associated with Fanconi anemia-like syndrome. This gene is one of four localized to a region of chromosome 17q23 where amplification occurs frequently in breast tumors. Overexpression of the four genes during amplification has been observed and suggests a possible role in tumor progression. Alternative splicing results in multiple transcript variants.

Model	STJ114361
Host	Rabbit
Reactivity	Human
Applications	IF
Immunogen	Recombinant fusion protein containing a sequence corresponding to amino acids 1-135 of human RAD51C (NP_002867.1).
Gene ID	5889
Gene Symbol	RAD51C
Dilution range	IF 1:50 - 1:100
Tissue Specificity	Expressed in a variety of tissues, with highest expression in testis, heart muscle, spleen and prostate
Purification	Affinity purification
Note	For Research Use Only (RUO).

Protein Name	DNA repair protein RAD51 homolog 3 R51H3 RAD51 homolog C RAD51-like protein 2
Molecular Weight	42.19 kDa
Clonality	Polyclonal
Conjugation	Unconjugated
Isotype	IgG
Formulation	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage Instruction	Store at -20C. Avoid freeze / thaw cycles.
Database Links	HGNC:9820OMIM:602774Reactome:R-HSA-5685942
Alternative Names	DNA repair protein RAD51 homolog 3 R51H3 RAD51 homolog C RAD51-like protein 2
Function	Essential for the homologous recombination (HR) pathway of DNA repair, Involved in the homologous recombination repair (HRR) pathway of double-stranded DNA breaks arising during DNA replication or induced by DNA-damaging agents, Part of the RAD21 paralog protein complexes BCDX2 and CX3 which act at different stages of the BRCA1-BRCA2-dependent HR pathway, Upon DNA damage, BCDX2 seems to act downstream of BRCA2 recruitment and upstream of RAD51 recruitment
Cellular Localization	Nucleus, Cytoplasm, Cytoplasm, perinuclear region, Mitochondrion,

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