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|--------------------------|----------------------------------------------------------------------------------------------------|
| <b>Product name:</b>     | Rad51C Rabbit Polyclonal Antibody                                                                  |
| <b>Cat number:</b>       | ABN16844                                                                                           |
| <b>Conjugate:</b>        | Unconjugated                                                                                       |
| <b>Size:</b>             | 100µL                                                                                              |
| <b>Clone:</b>            | Polyclonal                                                                                         |
| <b>Concentration:</b>    | 1mg/ml                                                                                             |
| <b>Host:</b>             | Rabbit                                                                                             |
| <b>Isotype:</b>          | IgG                                                                                                |
| <b>Immunogen:</b>        | The antiserum was produced against synthesized peptide derived from human RAD51C. AA range:161-210 |
| <b>Reactivity:</b>       | Human,Monkey                                                                                       |
| <b>Applications:</b>     | WB 1:500-1:2000,IHC 1:100-1:300,ICC/IF 1:200-1:1000,ELISA 1:5000-1:10000                           |
| <b>Molecular Weight:</b> | 50kDa                                                                                              |
| <b>Purification:</b>     | Affinity purification                                                                              |
| <b>Form:</b>             | Liquid                                                                                             |
| <b>Buffer:</b>           | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% New type preservative N.                 |
| <b>Storage:</b>          | Store at 4°C short term. Aliquot and store at -20°C for 12 months. Avoid freeze/thaw cycles.       |

**Background:**

RAD51 paralog C(RAD51C) Homo sapiens 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. [provided by RefSeq, Jul 2013],function:Involved in the homologous recombination repair (HRR) pathway of double-stranded DNA breaks arising during DNA replication or induced by DNA-damaging agents. 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 RAD51B and XRCC3. 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 RAD51B and RAD51.,tissue specificity:Expressed in a variety of tissues, with highest expression in testis, heart muscle, spleen and prostate.,