# Rad51C rabbit pAb

## Cat#: orb766183 (Manual)

For research use only. Not intended for diagnostic use.

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| **Product Name** | Rad51C rabbit pAb |
| **Host species** | Rabbit |
| **Applications** | WB;IHC;IF;ELISA |
| **Species Cross-Reactivity** | Human;Monkey |
| **Recommended dilutions** | Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/5000. Not yet tested in other applications. |
| **Immunogen** | The antiserum was produced against synthesized peptide derived from human RAD51C. AA range:161-210 |
| **Specificity** | Rad51C Polyclonal Antibody detects endogenous levels of Rad51C protein. |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.. |
| **Storage** | Store at -20°C. Avoid repeated freeze-thaw cycles. |
| **Protein Name** | DNA repair protein RAD51 homolog 3 |
| **Gene Name** | RAD51C |
| **Cellular localization** | Nucleus . Cytoplasm . Cytoplasm, perinuclear region . Mitochondrion . DNA damage induces an increase in nuclear levels. Accumulates in DNA damage induced nuclear foci or RAD51C foci which is formed during the S or G2 phase of cell cycle. Accumulation at DNA lesions requires the presence of NBN/NBS1, ATM and RPA. |
| **Purification** | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. |

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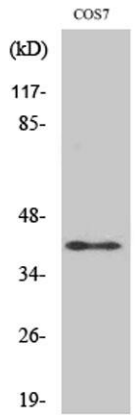
|---|---|
| **Clonality** | Polyclonal |
| **Concentration** | 1 mg/ml |
| **Observed band** | 50kD |
| **Human Gene ID** | 5889 |
| **Human Swiss-Prot Number** | O43502 |
| **Alternative Names** | RAD51C; RAD51L2; DNA repair protein RAD51 homolog 3; R51H3; RAD51 homolog C; RAD51-like protein 2 |
| **Background** | 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], |




**Western Blot analysis of various cells using Rad51C Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003,Inventbiotech,MN,USA).**

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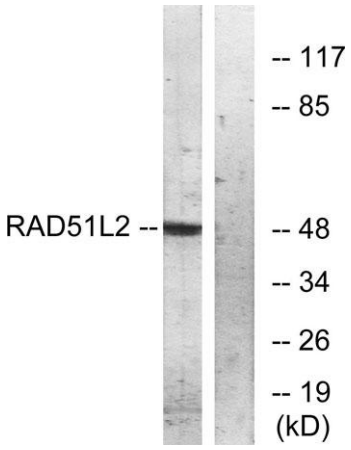
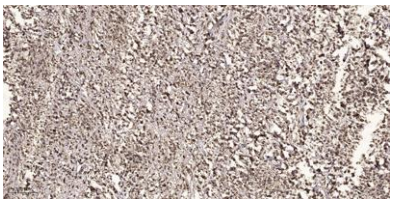



**Western blot analysis of lysates from COS7 cells, using RAD51L2 Antibody. The lane on the right is blocked with the synthesized peptide.**



**Immunohistochemical analysis of paraffin-embedded human small intestinal carcinoma tissue. 1,primary Antibody was diluted at 1:200(4° overnight). 2, Sodium citrate pH 6.0 was used for antigen retrieval(>98°C,20min). 3,Secondary antibody was diluted at 1:2**

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