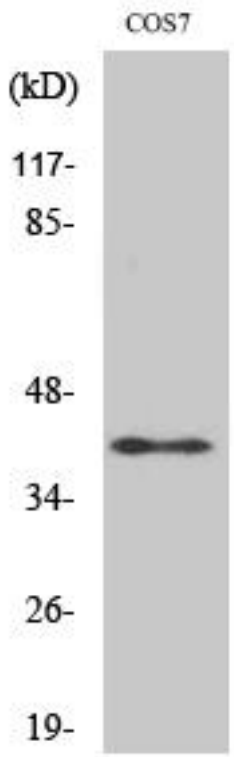
Rad51C Monoclonal Antibody

Catalog No	BYmab-00512
Isotype	IgG
Reactivity	Human;Monkey
Applications	WB
Gene Name	RAD51C
Protein Name	DNA repair protein RAD51 homolog 3
Immunogen	The antiserum was produced against synthesized peptide derived from human RAD51C. AA range:161-210
Specificity	Rad51C Monoclonal Antibody detects endogenous levels of Rad51C protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	RAD51C; RAD51L2; DNA repair protein RAD51 homolog 3; R51H3; RAD51 homolog C; RAD51-like protein 2
Observed Band	50kD
Cell Pathway	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.
Tissue Specificity	Expressed in a variety of tissues, with highest expression in testis, heart muscle, spleen and prostate.
Function	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.,
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],
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images



Western Blot analysis of various cells using Rad51C Monoclonal Antibody