



Rad51 mouse mAb

Catalog No	BYab-00093
Isotype	lgG
Reactivity	Human;Mouse;Rat;Monkey
Applications	WB
Gene Name	rad51
Protein Name	
Immunogen	Recombinant protein of human Rad51.
Specificity	This antibody detects endogenous levels of Rad51 and does not cross-react with related proteins.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse
Purification	The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen.
Dilution	wb 1:1000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	BRCA1/BRCA2 containing complex, subunit 5 ; BRCC 5 ; BRCC5 ; DNA repair protein RAD51 homolog 1 ; DNA repair protein rhp51 ; HRAD51 ; HsRad51 ; HsT16930 ; MRMV2 ; Rad 51 ; RAD51 ; RAD51 homolog (RecA homolog, E. coli) (S. cerevisiae) ; RAD51 homolog A ; RAD51 homolog ; RAD51 recombinase ; RAD51, S. cerevisiae, homolog of ; RAD51_HUMAN ; RAD51A ; RECA ; RecA like protein ; RecA, E. coli, homolog of ; Recombination protein A.
Observed Band	37kD
Cell Pathway	Nucleus . Cytoplasm . Cytoplasm, perinuclear region. Mitochondrion matrix . Chromosome . Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Colocalizes with RAD51AP1 and RPA2 to multiple nuclear foci upon induction of DNA damage (PubMed:20154705). DNA damage induces an increase in nuclear levels (PubMed:20154705). Together with FIGNL1, redistributed in discrete nuclear DNA damage-induced foci after ionizing radiation (IR) or camptothecin (CPT) treatment (PubMed:23754376). Accumulated at sites of DNA damage in a SPIDR-dependent manner (PubMed:23509288). Recruited at sites of DNA damage in a MCM9-MCM8-dependent manner (PubMed:23401855). Colocalizes with ERCC5/XPG to nuclear foci in S phase
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	(PubMed:26833090)
Tissue Specificity	Highly expressed in testis and thymus, followed by small intestine, placenta, colon, pancreas and ovary. Weakly expressed in breast.
Function	disease:Defects in RAD51 are associated with breast cancer (BC) [MIM:114480].,function:May participate in a common DNA damage response pathway associated with the activation of homologous recombination and double-strand break repair. Binds to single and double stranded DNA and exhibits DNA-dependent ATPase activity. Underwinds duplex DNA and forms helical nucleoprotein filaments.,PTM:Phosphorylated. Phosphorylation of Thr-309 by CHEK1/CHK1 may enhance association with chromatin at sites of DNA damage and promote DNA repair by homologous recombination.,similarity:Belongs to the recA family.,similarity:Belongs to the recA family. RAD51 subfamily.,similarity:Contains 1 HhH domain.,subcellular location:Colocalizes with RAD51AP1 to multiple nuclear foci upon induction of DNA damage.,subunit:Interacts with BRCA1, BRCA2 and either directly or indirectly with p53. Interacts with XRCC3, RAD54L an
Background	The protein encoded by this gene is a member of the RAD51 protein 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 the ssDNA-binding protein RPA and RAD52, and it is thought to play roles in homologous pairing and strand transfer of DNA. This protein is also found to interact with BRCA1 and BRCA2, which may be important for the cellular response to DNA damage. BRCA2 is shown to regulate both the intracellular localization and DNA-binding ability of this protein. Loss of these controls following BRCA2 inactivation may be a key event leading to genomic instability and tumorigenesis. Multiple transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Aug 2009],
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.

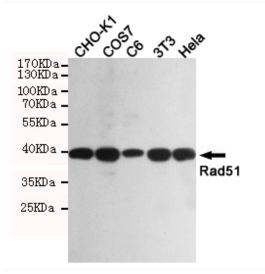
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Products Images



Western blot detection of Rad51 in CHO-K1,COS7,C6,3T3 and Hela cell lysates using Rad51 mouse mAb (1:1000 diluted).Predicted band size:37KDa.Observed band size:37KDa.

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