German Research Products - GRP GmbH
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Product Datasheet

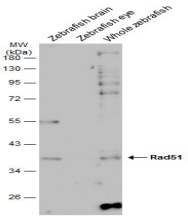
Rad51 antibody [N1C2]
GRP8

Description

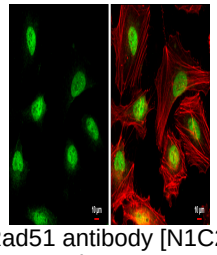
The protein encoded by this gene is a member of the RAD51 protein family. RAD51 family members are highly similar to bacterial RecA and Saccharomyces cerevisiae Rad51, and are known to be involved in the homologous recombination and repair of DNA. This protein can interact with the ssDNA-binding protein 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. Two alternatively spliced transcript variants of this gene, which encode distinct proteins, have been reported. Transcript variants utilizing alternative polyA signals exist. [provided by RefSeq]

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Species/Host	Rabbit
Reactivity	Human, Mouse, Rat, Zebrafish
Conjugation	Unconjugated
Tested Applications	ICC, IF, IHC-P, IP, WB
Immunogen	Recombinant protein encompassing a sequence within the cente region of human Rad51. The exact sequence is proprietary.
Form/Appearance	Liquid: 1XPBS, 20% Glycerol (pH7). 0.025% ProClin 300 was added as a preservative.
Concentration	1.53 mg/ml
Storage	Store as concentrated solution. Centrifuge briefly prior to openin vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Note	For research use only.
Isotype	IgG
Clonality	Polyclonal
Purity	Purified by antigen-affinity chromatography.
Uniprot ID	**Q06609**
Entrez	**5888**
Dilution Range	WB: 1:500-1:3000,ICC: 1:100-1:1000,IHC-P: 1:100-1:1000,IP: 1:100-1:500



Various tissue extracts (30 ?g) were separated by 10% SDS-PAGE, and the membrane was blotted with Rad51 antibody [N1C2] (GRP460) diluted at 1:500. The HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody, and the signal was



Rad51 antibody [N1C2] detects Rad51 protein at nucleus by immunofluorescent analysis.Sample: HeLa cells were fixed in 4% paraformaldehyde at RT for 15 min.Green: Rad51 protein stained by Rad51 antibody [N1C2] (GRP460) diluted at 1:500.Red: phalloidin, a c