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## anti-RAD51 antibody (Center)

8 Images



**Publications** 



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Quantity:	100 μL
Target:	RAD51
Binding Specificity:	Center
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RAD51 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunoprecipitation (IP), Immunofluorescence (IF), Immunocytochemistry (ICC)

#### **Product Details**

Immunogen:	Recombinant protein encompassing a sequence within the center region of human Rad51. The exact sequence is proprietary.
Isotype:	IgG
Cross-Reactivity:	Chicken, Dog (Canine), Rabbit, Rat (Rattus), Zebrafish (Danio rerio), Cow (Bovine), Xenopus tropicalis
Cross-Reactivity (Details):	Chicken (95 %), Dog (98 %), Rabbit (97 %), Rat (98 %), Zebrafish (90 %), Bovine (98 %), Xenopus tropicalis (97 %)
Characteristics:	Rabbit Polyclonal antibody to Rad51 (RAD51 homolog (RecA homolog, E. coli) (S. cerevisiae)) Rad51 antibody [N1C2]
Purification:	Purified by antigen-affinity chromatography.

### **Target Details**

Target:	RAD51	
Alternative Name:	Rad51 (RAD51 Products)	
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. Two alternatively spliced transcript variants of this gene, which encode distinct proteins, have been reported. Transcript variants utilizing alternative polyA signals exist.	
Molecular Weight:	37 kDa	
Gene ID:	5888	
Pathways:	DNA Damage Repair	
Application Details		
Application Notes:	Suggested dilution Reference ICC/IF 1:100-1:1000* IHC (Formalin-fixed paraffin-embedded sections) 1:100-1:1000* Immunoprecipitation 1:100-1:500* Western blot 1:500-1:3000* Not tested in other applications. *Optimal dilutions/concentrations should be determined by the researcher.Suggested dilutionReferenceICC/IF1:100-1:1000* IHC (Formalin-fixed paraffinembedded sections)1:100-1:1000* Immunoprecipitation1:100-1:500* Western blot1:500-1:3000*	
Comment:	Positive Control: 293T , A431 , H1299 , HeLa , HepG2 , Molt-4 , Raji , NIH-3T3	
Restrictions:	For Research Use only	
Handling		
Format:	Liquid	
Concentration:	0.57 mg/mL	
Buffer:	0.1M Tris, 0.1M Glycine, 10 % Glycerol (pH 7). 0.01 % Thimerosal was added as a preservative.	

#### Handling

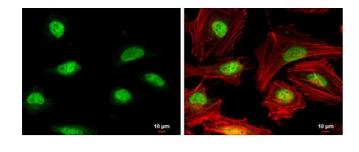
Preservative:	Thimerosal (Merthiolate)
Precaution of Use:	This product contains Thimerosal (Merthiolate): a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Keep as concentrated solution. Aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.

#### **Publications**

Product cited in:

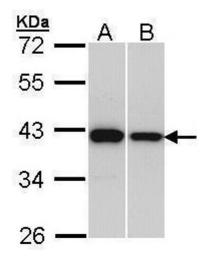
Sarin, Engel, Rothweiler, Cinatl, Michaelis, Frötschl, Fröhlich, Kalayda: "Key Players of Cisplatin Resistance: Towards a Systems Pharmacology Approach." in: **International journal of molecular sciences**, Vol. 19, Issue 3, (2018) (PubMed).

#### **Images**



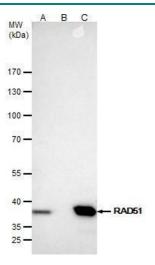
#### **Immunofluorescence**

Image 1. ICC/IF Image 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], diluted at 1:500. Red: phalloidin, a cytoskeleton marker, diluted at 1:200. Scale bar = 10 μm.



#### **Western Blotting**

Image 2. WB Image Sample (30 ug of whole cell lysate) A: H1299 B: Hep G2 , 12% SDS PAGE antibody diluted at 1:1000



#### **Immunoprecipitation**

Image 3. IP Image Rad51 antibody [N1C2] immunoprecipitates Rad51 protein in IP experiments. IP samples: Jurkat whole cell extract A. 40 μg Jurkat whole cell extract B. Control with 4 μg of preimmune Rabbit IgG C. Immunoprecipitation of Rad51 protein by 4 μg Rad51 antibody [N1C2] , 5 % SDS-PAGE The immunoprecipitated Rad51 protein was detected by Rad51 antibody [N1C2] , diluted at 1:500. [EasyBlot anti-rabbit IgG was used as a secondary reagent]

Please check the product details page for more images. Overall 8 images are available for ABIN2854762.