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[Marker Primary Antibody]

Rabbit Anti-Rad52/AF647 Conjugated antibody

Catalog Number: SL1878R-AF647

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	Anti-Rad52/AF647
Immunogen:	KLH conjugated synthetic peptide derived from human Rad52
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Applications:	IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	(predicted:Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Rabbit)
Background:	background: The protein encoded by this gene shares similarity with Saccharomyces cerevisiae Rad52, a protein important for DNA double-strand break repair and homologous recombination. This gene product was shown to bind single-stranded DNA ends, and mediate the DNA-DNA interaction necessary for the annealing of complementary DNA strands. It was also found to interact with DNA recombination protein RAD51, which suggested its role in RAD51 related DNA recombination and repair. [provided by RefSeq, Jul 2008] **Function:** Involved in double-stranded break repair. Plays a central role in genetic recombination and DNA repair by promoting the annealing of complementary single-stranded DNA and by stimulation of the RAD51 recombinase. **Subunit:** The full-length protein forms heptameric rings. Interacts with ABL1. **Subcellular Location:** Nucleus (Potential). **Post-translational modifications:** Phosphorylated upon DNA damage by

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	ABL1, and probably by ATM or ATR. **Similarity:** Belongs to the RAD52 family. **Database links:** **Entrez Gene:** 5893 Human Omim: 600392 Human **SwissProt:** P43351 Human **Unigene:** 410355 Human Important **Note:** This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.