

Datasheet for 600-401-679**RAD52 Antibody****Overview**

Description:	Anti-Human RAD52 (RABBIT) Antibody - 600-401-679
Item No.:	600-401-679
Size:	100 µg
Applications:	ELISA, WB, IF
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	The protein encoded by this gene shares similarity with <i>Saccharomyces cerevisiae</i> 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. Four alternatively spliced transcript variants encoding different isoforms have been reported for this gene. The alpha variant encodes the longest isoform that contains an identical N-terminus, but a distinct C-terminus, as compared to other isoforms (beta, delta, and gamma).
Synonyms:	rabbit anti-RAD52 antibody, RAD-52, RAD 52, DNA repair protein RAD52 homolog antibody, RAD 52 antibody, RAD52 homolog antibody, recombination protein RAD52 antibody
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	RAD52
Reactivity:	Human
Immunogen Type:	Conjugated Peptide

Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region near aa 350-375 of the Human Rad 52 protein.
Purity/Specificity:	This is an affinity purified antibody produced by immunoaffinity chromatography using the immunizing peptide after immobilization to a solid phase. Reactivity occurs against human RAD52 protein.
Relevant Links:	• UniProtKB - P43351 • NCBI - NP_602296 • GenelD - 5893

Application Details

Tested Applications:	ELISA, WB
Suggested Applications:	IF (Based on references)
Application Note:	This affinity purified antibody has been tested by WB and ELISA. Anti-RAD52 is useful in western blotting using HeLa nuclear extracts. Dilutions for western blotting represent a starting point dilution and further optimization may be required. The antibody detects a band of approximately 63.0 kDa (predicted molecular weight: 46.3 kDa). Specific band detection by western blot is blocked by peptide competition by pre-incubating the antibody with the immunizing peptide prior to reaction with the membrane. Reactivity in other immunoassays is unknown.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:20,000
WB:	1:500 - 1:2,000

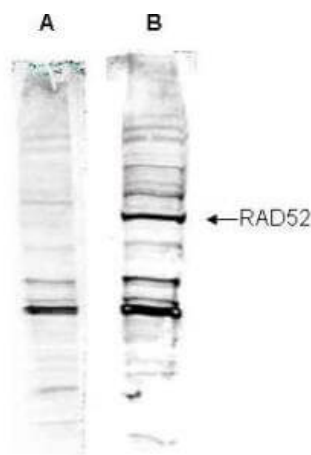
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western blot analysis is shown using Rockland's Affinity Purified anti-Human RAD52 antibody to detect Human RAD52 present in a HeLa nuclear extract (panel B). ~30µg of lysate was loaded per lane for 4-20% gradient SDS-PAGE. Comparison to a molecular weight marker (not shown) indicates a band of ~63.0 kDa is detected. Peptide competition (panel A) blocks the specific staining of this band. The blot was incubated with a 1:1000 dilution of the antibody at room temperature for 2 h followed by detection using IRDye™800 labeled Goat-a-Rabbit IgG [H&L] (611-132-122) diluted 1:5,000 for 45 min. IRDye™800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by

Disclaimer

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