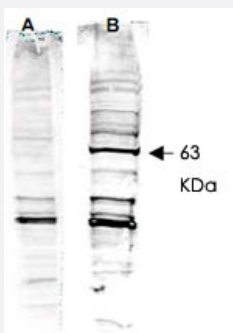


RAD52 polyclonal antibody

Catalog # PAB10230 Size 100 ug

Applications

Western Blot (Cell lysate)



Western blot analysis is shown using RAD52 polyclonal antibody (Cat # PAB10230) to detect human RAD52 present in a HeLa nuclear extract (panel B).

Approximately 30 ug 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] diluted 1 : 5,000 for 45 min.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of RAD52.
Immunogen	A synthetic peptide corresponding to amino acids 360-375 of human RAD52.
Host	Rabbit
Reactivity	Human
Specificity	Reactivity occurs against human RAD52 protein.
Form	Liquid
Quality Control Testing	Antibody Reactive Against Synthetic Peptide.
Recommend Usage	ELISA (1:5000-1:20000) Western Blot (1:500-1:2000) The optimal working dilution should be determined by the end user.

Storage Buffer	In 20 mM KH ₂ PO ₄ , 150 mM NaCl, pH 7.2 (0.01% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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- Enzyme-linked Immunoabsorbent Assay

Gene Info — RAD52

Entrez GeneID	5893
Protein Accession#	P43351;NP_002870
Gene Name	RAD52
Gene Alias	-
Gene Description	RAD52 homolog (S. cerevisiae)
Omim ID	600392
Gene Ontology	Hyperlink
Gene Summary	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]
Other Designations	DNA repair protein RAD52 RAD52 homolog recombination protein RAD52 rhabdomyosarcoma antigen MU-RMS-40.23

Publication Reference

- [Expression of human RAD52 confers resistance to ionizing radiation in mammalian cells.](#)

Park MS.

The Journal of Biological Chemistry 1995 Jun; 270(26):15467.

Application: IF, WB-Tr, Monkey, FS2 cells

- [The human and mouse homologs of the yeast RAD52 gene: cDNA cloning, sequence analysis, assignment to human chromosome 12p12.2-p13, and mRNA expression in mouse tissues.](#)

Shen Z, Denison K, Lobb R, Gatewood JM, Chen DJ.

Genomics 1995 Jan; 25(1):199.

Application: WB-Ti, Mouse, Mouse tissues

- [Cloning of human and mouse genes homologous to RAD52, a yeast gene involved in DNA repair and recombination.](#)

Muris DF, Bezzubova O, Buerstedde JM, Vreeken K, Balajee AS, Osgood CJ, Troelstra C, Hoeijmakers JH, Ostermann K, Schmidt H, et al..

Mutation Research 1994 Nov; 315(3):295.

Application: WB-Ce, WB-Tr, Human, Mammalian cells

Pathway

- [Homologous recombination](#)

Disease

- [Adenocarcinoma](#)
- [Ataxia telangiectasia](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Colorectal Neoplasms](#)

- [DNA Damage](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Glioma](#)
- [Head and Neck Neoplasms](#)
- [Kidney Failure](#)
- [Lung Neoplasms](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Multiple Sclerosis](#)
- [Neoplasms](#)
- [Neuroma](#)
- [Ovarian cancer](#)
- [Ovarian Neoplasms](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Pulmonary Disease](#)
- [Stomach Neoplasms](#)
- [Thyroid Neoplasms](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)