RAD52 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Rad52, Polyclonal Antibody
Full Product Name	Rad52 (Phospho Tyr104) Polyclonal Antibody
Product Gene Name	anti-Rad52 antibody
Product Synonym Names	RAD52; DNA repair protein RAD52 homolog
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Monkey
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1mg/ml (lot specific)
Specificity	Phospho-Rad52 (Y104) Polyclonal Antibody detects endogenous levels of Rad52 protein only when phosphorylated at Y104.
Preparation and Storage	Store at -20 degree C for 1 year
Molecular Weight	46,169 Da
Chromosome Location	Chromosome: 12; NC_000012.11 (1021255..1058863, complement). Location: 12p13-p12.2
OMIM	600392
3D Structure	ModBase 3D Structure for P43351
Immunogen	The antiserum was produced against synthesized peptide derived from human RAD52 around the phosphorylation site of Tyr104. AA range:70-119
Product Categories/Family for anti-Rad52 antibody	Primary Antibodies
Applications Tested/Suitable for anti-Rad52 antibody	Western Blot (WB), Immunohistochemistry-Paraffin (IHC-P), Immunofluorescence (IF)(paraffin, section), ELISA (EIA)
Application Notes for anti-Rad52 antibody	WB: 1/500-1/2000 IHC: 1/100-1/300 ELISA: 1/20000
Related Product Information for anti-Rad52 antibody	RAD52 homolog, DNA repair protein (RAD52), Homo sapiens. 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. A pseudogene of this gene is present on chromosome 2. Alternative splicing results in multiple transcript variants. Additional alternatively spliced transcript variants of this gene have been described, but their full-length nature is not known. [provided by RefSeq, Jul 2014]
Other Notes	Small volumes of anti-Rad52 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for Rad52 purchase	MBS9458757 is an antibody targeting Rad52. Also known as Rad52 (Phospho Tyr104) Polyclonal Antibody. Reactive in Human, Mouse, Monkey. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Rad52. It may not necessarily be applicable to this product.

NCBI GI #	109637798
NCBI GeneID	5893
NCBI Accession #	NP_602296.2
UniProt Primary Accession #	P43351
UniProt Secondary Accession #	Q13205
UniProt Related Accession #	P43351
GenBank Nucleotide #	NM_134424.2
NCBI Official Full Name	DNA repair protein RAD52 homolog
NCBI Official Synonym Full Names	RAD52 homolog (S. cerevisiae)
NCBI Official Symbol	RAD52
UniProt Protein Name	DNA repair protein RAD52 homolog
Protein Family	DNA repair and recombination protein
UniProt Gene Name	RAD52
UniProt Entry Name	RAD52_HUMAN
NCBI Protein Information	DNA repair protein RAD52 homolog; recombination protein RAD52; rhabdomyosarcoma antigen MU-RMS-40.23
NCBI Summary for Rad52	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]
UniProt Comments for Rad52	RAD52: a protein involved in DNA double strand breaks and recombination. Associates with and is phosphorylated by c-Abl. Belongs to the RAD52/RAD22 family. Protein type: DNA repair, damage Chromosomal Location of Human Ortholog: 12p13-p12.2 Cellular Component: nucleoplasm; nucleus Molecular Function: identical protein binding; protein binding; DNA binding Biological Process: DNA recombinase assembly; double-strand break repair; DNA repair; double-strand break repair via homologous recombination; DNA recombination
Research Articles on Rad52	**1.** Both RAD52 variants and protein expression can predict platinum resistance, and RAD52 variants appeared to predict prognosis in cervical cancer patients.
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