RAD21 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RAD21, Polyclonal Antibody
Full Product Name	RAD21 Antibody
Product Gene Name	anti-RAD21 antibody
Product Synonym Names	Double-strand-break repair protein rad21 homolog; hHR21; Nuclear matrix protein 1; NXP-1; SCC1 homolog
Clonality	Polyclonal
Isotype	Rabbit IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Specificity	The antibody detects endogenous levels of total RAD21 protein.
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze/thaw cycles.
Molecular Weight	71690 MW
OMIM	X98294 mRNA
3D Structure	ModBase 3D Structure for O60216
Immunogen	Synthesized peptide derived from internal of human RAD21.
Product Categories/Family for anti-RAD21 antibody	Primary Antibody
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for anti-RAD21 antibody	Western Blot (WB)
Application Notes for anti-RAD21 antibody	WB: 1:500~1:3000
Related Product Information for anti-RAD21 antibody	Cleavable component of the cohesin complex, involved in chromosome cohesion during cell cycle, in DNA repair, and in apoptosis. The cohesin complex is required for the cohesion of sister chromatids after DNA replication. The cohesin complex apparently forms a large proteinaceous ring within which sister chromatids can be trapped. At metaphase-anaphase transition, this protein is cleaved by separase/ESPL1 and dissociates from chromatin, allowing sister chromatids to segregate. The cohesin complex may also play a role in spindle pole assembly during mitosis. Also plays a role in apoptosis, via its cleavage by caspase-3/CASP3 or caspase-7/CASP7 during early steps of apoptosis: the C-terminal 64 kDa cleavage product may act as a nuclear signal to initiate cytoplasmic events involved in the apoptotic pathway.
Product References and Citations for anti-RAD21 antibody	McKay M.J., Genomics 36:305-315 (1996).Sadano H., Biochem. Biophys. Res. Commun. 267:418-422 (2000).Nomura N., DNA Res. 1:223-229 (1994)
Other Notes	Small volumes of anti-RAD21 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 RAD21 purchase	MBS8587871 is an antibody targeting RAD21. Also known as RAD21 Antibody. Reactive in Human, Mouse. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RAD21. It may not necessarily be applicable to this product.

NCBI GI #	5453994
NCBI GeneID	5885
NCBI Accession #	NP_006256.1
UniProt Primary Accession #	O60216
UniProt Secondary Accession #	Q15001; Q99568; A8K0E0
UniProt Related Accession #	O60216
GenBank Nucleotide #	NM_006265.2
NCBI Official Full Name	double-strand-break repair protein rad21 homolog
NCBI Official Synonym Full Names	RAD21 cohesin complex component
NCBI Official Symbol	RAD21
NCBI Official Synonym Symbols	HR21; MCD1; NXP1; SCC1; CDLS4; hHR21; HRAD21
UniProt Protein Name	Double-strand-break repair protein rad21 homolog
UniProt Synonym Protein Names	Nuclear matrix protein 1; NXP-1; SCC1 homolog
Protein Family	Cofilin
UniProt Gene Name	RAD21
UniProt Synonym Gene Names	; hHR21; NXP-1
NCBI Protein Information	double-strand-break repair protein rad21 homolog
NCBI Summary for RAD21	The protein encoded by this gene is highly similar to the gene product of Schizosaccharomyces pombe rad21, a gene involved in the repair of DNA double-strand breaks, as well as in chromatid cohesion during mitosis. This protein is a nuclear phospho-protein, which becomes hyperphosphorylated in cell cycle M phase. The highly regulated association of this protein with mitotic chromatin specifically at the centromere region suggests its role in sister chromatid cohesion in mitotic cells. [provided by RefSeq, Jul 2008]
Research Articles on RAD21	**1.** This study together with previous reports suggests incomplete penetrance associated with RAD21 variants and these individuals may therefore be underdiagnosed.
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