

Mouse Rad9A Monoclonal Antibody | anti-Rad9A antibody

Rad9A Antibody

CATALOG # AAA111279	HOST Mouse	REACTIVITY Human, Mouse, Rat, Monkey	APPLICATIONS Immunoprecipitation, Western Blot
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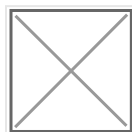
PRODUCT SYNONYMS

Rad9A; Monoclonal Antibody; Rad9A Antibody; Cell cycle checkpoint control protein; DNA repair exonuclease rad9 homolog A; hRAD 9; hRAD9; Rad 9; RAD 9A; RAD9 (S pombe) homolog; RAD9 homolog A; RAD9 homolog; RAD9A; anti-Rad9A antibody

PRODUCT SPECIFICATIONS

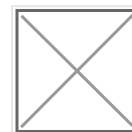
Host	Mouse
Reactivity	Human, Mouse, Rat, Monkey
Clonality	Monoclonal
Isotype	IgG2b
Specificity	This antibody detects endogenous levels of RAD9A, and does not cross-react with related proteins.
Purity/Purification	Affinity purified
Form/Format	Purified mouse monoclonal in PBS(pH 7.4)containing with 0.2% sodium azide, 50% glycerol, 0.1%BSA.
Sequence Length	315
Applicable Applications for anti-Rad9A antibody	IP (Immunoprecipitation), WB (Western Blot)
Immunogen	Purified recombinant human Rad9A protein fragments expressed in E Coli
Cellular Localization	Nucleus

IMAGES



Application Data

Immunoprecipitation analysis of HeLa & 3T3 cell lysates using RAD9A antibody.



Application Data

Western blot detection of RAD9A in HeLa, MCF7, 3T3, COS7&Rat testis cell lysates using RAD9A antibody (1:500 diluted). Predicted band size:43KDa, Observed band size:55KDa.

ADDITIONAL INFORMATION

Related Product Information for anti-Rad9A antibody	UniPort Summary Function: Component of the 9-1-1 cell-cycle checkpoint response complex that plays a major role in DNA repair. The 9-1-1 complex is recruited to DNA lesion upon damage by the RAD17-replication factor C(RFC) clamp loader complex. Acts then as a sliding clamp platform on DNA for several proteins involved in long-patch base excision repair (LP-BER). The 9-1-1 complex stimulates DNA polymerase beta (POLB) activity by increasing its affinity for the 3'-OH end of the primer-template and stabilizes POLB to those sites where LP-BER proceeds; endonuclease FEN1 cleavage activity on substrates with double, nick, or gap flaps of distinct sequences and lengths; and DNA ligase I (LIG1) on long-patch base excision repair substrates. The 9-1-1 complex is necessary for the recruitment of C12orf32/RHINO to sites of double-stranded breaks (DSB) occurring during the S phase. RAD9A possesses 3'→5' double stranded DNA exonuclease activity. Its phosphorylation by PRKCD may be required for the formation of the 9-1-1 complex. Entrez Summary: This gene product is highly similar to Schizosaccharomyces pombe rad9, a cell cycle checkpoint protein required for cell cycle arrest and DNA damage repair. This protein possesses 3' to 5' exonuclease activity, which may contribute to its role in sensing and repairing DNA damage. It forms a checkpoint protein complex with RAD1 and HUS1. This complex is recruited by checkpoint protein RAD17 to the sites of DNA damage, which is thought to be important for triggering the checkpoint-signaling cascade. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Product Categories/Family for anti-Rad9A antibody	Autophagy antibody; Cancer; Cardiovascular; Cell Biology; Epigenetics & Nuclear Signaling; Developmental Biologys; Immunology; Drug Discovery Products; Metabolism; Neuroscience; Signal Transduction; Stem Cells

NCBI AND UNIPROT INFORMATION

NCBI GI #	342672046
NCBI GeneID	5883
NCBI Accession #	NP_001230153.1
NCBI GenBank Nucleotide #	NM_004584
UniProt Accession #	Q99638; Q6FI29; Q96C41; B2RCZ8
Molecular Weight	55kDa
NCBI Official Full Name	cell cycle checkpoint control protein RAD9A isoform 2
NCBI Official Synonym Full Names	RAD9 checkpoint clamp component A
NCBI Official Symbol	RAD9A
NCBI Official Synonym Symbols	RAD9
NCBI Protein Information	cell cycle checkpoint control protein RAD9A
UniProt Protein Name	Cell cycle checkpoint control protein RAD9A
UniProt Gene Name	RAD9A
UniProt Synonym Gene Names	hRAD9

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/monoclonal/rad9a-antibody-immunoprecipitation-western-blot-elisa/111279>