

**Mouse Rad9a Blocking Peptide (C-term)**  
**Synthetic peptide**  
**Catalog # BP21265b****Specification**

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**Mouse Rad9a Blocking Peptide (C-term) - Product Information**Primary Accession [Q9Z0F6](#)**Mouse Rad9a Blocking Peptide (C-term) - Additional Information****Gene ID** 19367**Other Names**

Cell cycle checkpoint control protein RAD9A, mRAD9, DNA repair exonuclease rad9 homolog A, Rad9-like protein, Rad9a, Rad9

**Target/Specificity**

The synthetic peptide sequence is selected from aa 279-293 of HUMAN Rad9a

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**Mouse Rad9a Blocking Peptide (C-term) - Protein Information****Name** Rad9a**Synonyms** Rad9**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 RHNO1 to sites of double-stranded breaks (DSB) occurring during the S phase. RAD9A possesses 3'→5' double stranded DNA exonuclease activity.

**Cellular Location**

Nucleus {ECO:0000250|UniProtKB:Q99638}.

**Tissue Location**

Expressed in heart, brain, spleen, lung, liver, skeletal muscle, kidney and testis.

**Mouse Rad9a Blocking Peptide (C-term) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

**Mouse Rad9a Blocking Peptide (C-term) - Images****Mouse Rad9a Blocking Peptide (C-term) - Background**

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**Mouse Rad9a Blocking Peptide (C-term) - References**

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Carninci P.,et al.Science 309:1559-1563(2005).  
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Ishii H.,et al.Proc. Natl. Acad. Sci. U.S.A. 102:9655-9660(2005).  
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