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RAD9 BH3 Domain Peptide
Synthetic Peptide
Catalog # SP1022a

Specification

RAD9 BH3 Domain Peptide - Product Information

Primary Accession	Q4R5X9
Other Accession	Q99638
Sequence	**CLGKAVHSLSRIGDELYLEPLE**

RAD9 BH3 Domain Peptide - Additional Information

Other Names
Cell cycle checkpoint control protein RAD9A, DNA repair exonuclease rad9 homolog A, 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.

RAD9 BH3 Domain Peptide - Protein Information

Name RAD9A

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}.

RAD9 BH3 Domain Peptide - Images