

Rad51 (175 - 190) (CDB55)
Synthetic Peptide
Catalog # SP2142b**Specification**

Rad51 (175 - 190) (CDB55) - Product Information

Primary Accession [P37383](#)
Other Accession [P70099](#), [Q08297](#), [Q8MKI8](#), [O77507](#), [Q2KJ94](#)
Sequence **NH2-AERYGLSGSDVLDNVA-COOH**

Rad51 (175 - 190) (CDB55) - Additional Information

Gene ID 396086

Other Names

DNA repair protein RAD51 homolog 1, RAD51A, RAD51

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.

Rad51 (175 - 190) (CDB55) - Protein Information

Name RAD51A

Synonyms RAD51

Function

Plays an important role in homologous strand exchange, a key step in DNA repair through homologous recombination (HR). Binds to single-stranded DNA in an ATP-dependent manner to form nucleoprotein filaments which are essential for the homology search and strand exchange. Catalyzes the recognition of homology and strand exchange between homologous DNA partners to form a joint molecule between a processed DNA break and the repair template. Recruited to resolve stalled replication forks during replication stress. Also involved in interstrand cross-link repair.

Cellular Location

Nucleus {ECO:0000250|UniProtKB:Q06609}. Cytoplasm {ECO:0000250|UniProtKB:Q06609}. Chromosome {ECO:0000250|UniProtKB:Q06609}. Note=Accumulated at sites of DNA damage. Recruited to stalled replication forks during replication stress. {ECO:0000250|UniProtKB:Q06609}

Tissue Location

Expressed at high levels in lymphoid and reproductive organs.

Rad51 (175 - 190) (CDB55) - Images