

NBS1 Peptide

Subcategory: Synthetic Peptide, Blocking Peptide

Cat. No.: 350525

Unit: 0.1 mg

Description:

Nijmegen breakage syndrome protein 1 (NBS1) is a component of the MRE11/RAD50/NBN (MRN) complex, which plays a critical role in the cellular response to DNA damage and the maintenance of chromosome integrity. The complex is involved in double-strand break (DSB) repair, DNA recombination, maintenance of telomere integrity, cell cycle checkpoint control and meiosis. NBS1 modulates the DNA damage signal sensing by recruiting PI3/PI4-kinase family members ATM, ATR, and probably DNA-PKcs to the DNA damage sites and activating their functions. Defects in NBS1 are the cause of Nijmegen breakage syndrome, cancer predisposition, and anemia.

Format: Each vial contains 0.1 mg of lyophilized peptide. Reconstitute with 0.1 ml deionized water for a final concentration of 1 mg/ml. Use at 5.6 ug/ml for a 100X excess over antibody for maximum blocking effect.

Alternate Names: Nibrin; Nijmegen breakage syndrome protein 1; Cell cycle regulatory protein p95; NBN; NBS; NBS1; P95

Accession No.: O60934

MW: 2232.5 g/mol

Sequence: The synthetic peptide used to raise the antibody Cat. No. 200163 is selected from a sequence within the C-term region of human NBS1. For blocking experiments, a 10 to 100 fold molar excess to antibody is recommended.

Composition: C99H150N26O31S1

Purity: Purity > 80% by HPLC

Solubility: Distilled water for a solution up to 2 mg/ml, otherwise we recommend using acetonitrile.

Storage: Store at -20°C. The product is hygroscopic and must be protected from light. Product is guaranteed one year from the date of shipment. Following reconstitution, store at -20°C.

For research use only, not for diagnostic or therapeutic procedures.