



Catalog: OM215020

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NBN Antibody (C-term)

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☐ 100ug

Product profile

Product name	NBN Antibody (C-term)
Antibody Type	Primary Antibodies

Key Feature

Clonality	Polyclonal
Isotype	Ig
Host Species	Rabbit
Tested Applications	WB ,IF ,FC
Species Reactivity	Human
Concentration	1 mg/ml
Purification	

Target Information

Gene Synonyms	NBS, NBS1, P95
Alternative Names	NBN; NBS; NBS1; P95; Nibrin; Cell cycle regulatory protein p95; Nijmegen breakage syndrome protein 1
Molecular Weight(MW)	84959 Da
Function	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. The complex possesses single-strand endonuclease activity and double-strand-specific 3'-5' exonuclease activity, which are provided by MRE11A. RAD50 may be required to bind DNA ends and hold them in close proximity. NBN modulate 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. It can also recruit MRE11 and RAD50 to the proximity of DSBs by an interaction with the histone H2AX. NBN also functions in telomere length maintenance by generating the 3' overhang which serves as a primer for telomerase dependent telomere elongation. NBN is a major player in the control of intra-S-phase checkp

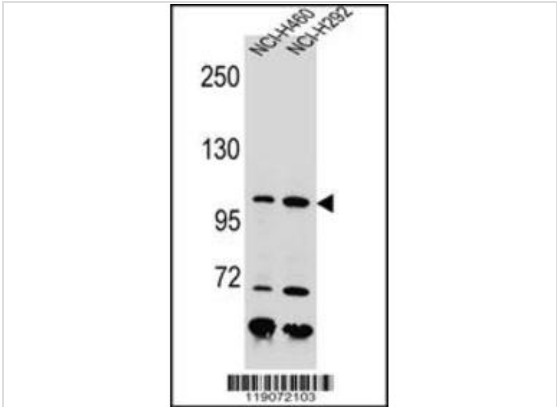
oint and there is some evidence that NBN is involved in G1 and G2 checkpoints. The roles of NBS1/MRN encompass DNA damage sensor, signal transducer, and effector, which enable cells to maintain DNA integrity and genomic stability. Forms a complex with RBBP8 to link DNA double-strand break sensing to resection

Tissue Specificity	Ubiquitous. Expressed at high levels in testis
Cellular Localization	Nucleus (By similarity). Chromosome, telomere (By similarity). Note=Localizes to discrete nuclear foci after treatment with genotoxic agents (By similarity)

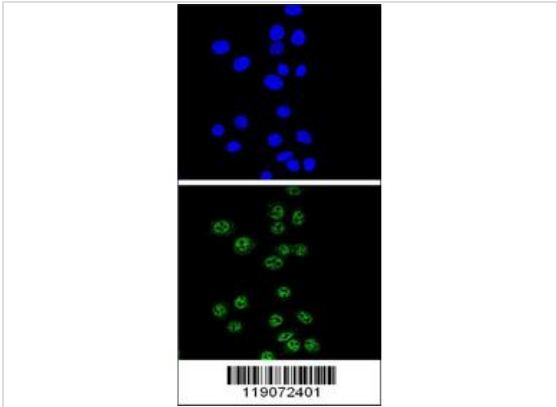
Database Links

Entrez Gene	4683
Nucleotide Accession	NP_002476.2

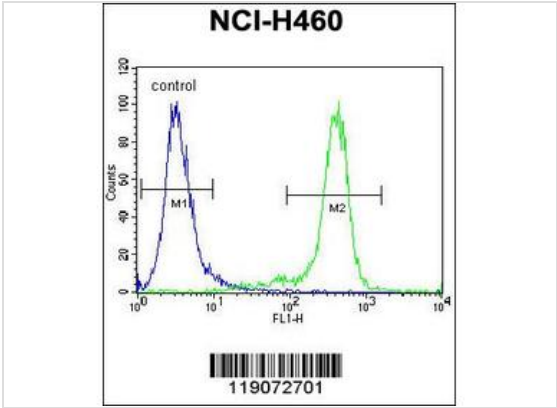
Application



Application
NBN Antibody (C-term) western blot analysis in NCI-H460,NCI-H292 cell line lysates (35ug/lane).This demonstrates the NBN antibody detected the NBN protein (arrow).



Application
Confocal immunofluorescent analysis of NBN Antibody (C-term) with HeLa cells followed by Alexa Fluor® 488-conjugated goat anti-rabbit IgG (green). DAPI was used to stain the cell nuclear (blue).



Application
NBN Antibody (C-term) flow cytometric analysis of NCI-H460 cells (right histogram) compared to a negative control cell (left histogram).FIT C-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

Additional Information

Form	Liquid
Storage Instructions	For short-term storage, store at 4° C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Storage Buffer	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Note	The product is for research use only,not for use in diagnostic or therapeutic procedures.

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This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt