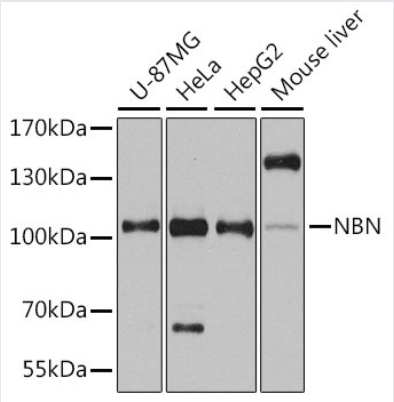
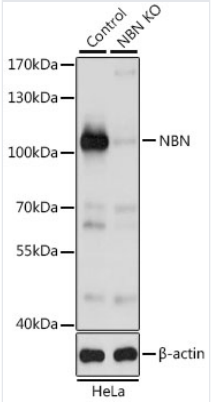
NBN Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NBN, Polyclonal Antibody
Full Product Name	NBN Polyclonal Antibody
Product Gene Name	anti-NBN antibody
Product Synonym Names	NBN; AT-V1; AT-V2; ATV; NBS; NBS1; P95; nibrin
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human, Mouse
Form/Format	PBS with 50% glycerol, pH7.4
Purity/Purification	Affinity purification
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.
Molecular Weight	84,959 Da
Chromosome Location	Chromosome: 8; NC_000008.10 (90945564..90996899, complement). Location: 8q21
OMIM	114480
3D Structure	ModBase 3D Structure for O60934
Immunogen	Recombinant fusion protein of human NBN (NP_002476.2).
Conjugation	Unconjugated
Product Categories/Family for anti-NBN antibody	Total protein Ab
Applications Tested/Suitable for anti-NBN antibody	Western Blot (WB)
Application Notes for anti-NBN antibody	WB: 1:500-1:1000
Related Product Information for anti-NBN antibody	Mutations in this gene are associated with Nijmegen breakage syndrome, an autosomal recessive chromosomal instability syndrome characterized by microcephaly, growth retardation, immunodeficiency, and cancer predisposition. The encoded protein is a member of the MRE11/RAD50 double-strand break repair complex which consists of 5 proteins. This gene product is thought to be involved in DNA double-strand break repair and DNA damage-induced checkpoint activation.
Other Notes	Small volumes of anti-NBN antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NBN purchase	MBS9431117 is an antibody targeting NBN. Also known as NBN Polyclonal Antibody. Reactive in Human, Mouse. Host: Rabbit.



Western Blot (WB) of anti-NBN antibody
Western blot analysis of extracts of various cell lines, using NBN antibody.



Western Blot (WB) of anti-NBN antibody
Western blot analysis of extracts from normal (control) and NBN knockout (KO) HeLa cells, using NBN antibody.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NBN. It may not necessarily be applicable to this product.

NCBI GI #	33356172
NCBI GeneID	4683
NCBI Accession #	NP_002476.2
UniProt Primary Accession #	O60934
UniProt Secondary Accession #	O60672; Q32NF7; Q53FM6; Q63HR6; Q7LDM2; B2R626; B2RNC5
UniProt Related Accession #	O60934
GenBank Nucleotide #	NM_002485.4
NCBI Official Full Name	nibrin
NCBI Official Synonym Full Names	nibrin
NCBI Official Symbol	NBN
NCBI Official Synonym Symbols	ATV; NBS; P95; NBS1; AT-V1; AT-V2
UniProt Protein Name	Nibrin
UniProt Synonym Protein Names	Cell cycle regulatory protein p95; Nijmegen breakage syndrome protein 1
Protein Family	Nibrin
UniProt Gene Name	NBN
UniProt Synonym Gene Names	NBS; NBS1; P95
UniProt Entry Name	NBN_HUMAN
NCBI Protein Information	nibrin; cell cycle regulatory protein p95; Nijmegen breakage syndrome 1 (nibrin); p95 protein of the MRE11/RAD50 complex

UniProt Comments for NBN	NBS1: a member of the MRE11/RAD50 double-strand break repair complex. Involved in DNA double-strand break repair and DNA damage-induced checkpoint activation. Mutation results in the Nijmegen breakage syndrome (NBS), an autosomal recessive chromosomal instability syndrome. Protein type: Cell cycle regulation; DNA repair, damage Chromosomal Location of Human Ortholog: 8q21 Cellular Component: nucleoplasm; PML body; Mre11 complex; nuclear chromosome, telomeric region; nucleolus; replication fork; nucleus; nuclear inclusion body Molecular Function: ATP-dependent DNA helicase activity; protein binding; damaged DNA binding; protein N-terminus binding; transcription factor binding Biological Process: DNA damage response, signal transduction by p53 class mediator; mitotic cell cycle checkpoint; positive regulation of kinase activity; isotype switching; DNA repair; positive regulation of protein amino acid autophosphorylation; DNA duplex unwinding; double-strand break repair via homologous recombination; regulation of DNA replication initiation; cell proliferation; meiotic cell cycle; double-strand break repair; mitotic cell cycle G2/M transition DNA damage checkpoint; DNA damage checkpoint; blastocyst growth; cell cycle arrest; neuromuscular process controlling balance; telomere maintenance Disease: Leukemia, Acute Lymphoblastic; Nijmegen Breakage Syndrome; Aplastic Anemia
Research Articles on NBN	**1.** These studies reveal one important mechanism to regulate cell-cycle-dependent activation of HR upon DNA damage by coupling CDK- and ATM-mediated phosphorylation of CtIP through modulating the interaction of CtIP with Nbs1
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