

NBN polyclonal antibody

Catalog # PAB12377

Size 50 uL

Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant NBN.
Immunogen	Recombinant protein corresponding to amino acids 1-705 of human NBN.
Host	Rabbit
Reactivity	Human, Mouse, Primates
Specificity	This antibody is specific to human NBS1.
Form	Liquid
Recommend Usage	Immunocytochemistry (1:50-1:200) Immunofluorescence (1:200) Immunoprecipitation (3 ug/mL) Western Blot (1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In antiserum (0.09% sodium azide)
Storage Instruction	Store at 4°C. Do not freeze.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot
- Immunocytochemistry
- Immunofluorescence
- Immunoprecipitation

Gene Info — NBN

Entrez GeneID [4683](#)

Protein Accession# [O60934](#)

Gene Name NBN

Gene Alias AT-V1, AT-V2, ATV, FLJ10155, MGC87362, NBS, NBS1, P95

Gene Description nibrin

Omim ID [251260](#) [602667](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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. [provided by RefSeq]

Other Designations Nijmegen breakage syndrome 1 (nibrin)|cell cycle regulatory protein p95|p95 protein of the MRE11/RAD50 complex

Publication Reference

- [Xrcc3 and Nbs1 are required for the production of extrachromosomal telomeric circles in human alternative lengthening of telomere cells.](#)

Compton SA, Choi JH, Cesare AJ, Ozgür S, Griffith JD.

Cancer Research 2007 Feb; 67(4):1513.

Application: WB-Tr, Human, GM847, WI-Va13 cells

- [The Mre11/Rad50/Nbs1 complex interacts with the mismatch repair system and contributes to temozolomide-induced G2 arrest and cytotoxicity.](#)

Mirzoeva OK, Kawaguchi T, Pieper RO.

Molecular Cancer Therapeutics 2006 Nov; 5(11):2757.

Application: IP, WB, Human, U87 MG cells

- [Deficiency in the repair of DNA damage by homologous recombination and sensitivity to poly\(ADP-ribose\) polymerase inhibition.](#)

McCabe N, Turner NC, Lord CJ, Kluzek K, Bialkowska A, Swift S, Giavara S, O'Connor MJ, Tutt AN, Zdzienicka MZ, Smith GC, Ashworth A.

Cancer Research 2006 Aug; 66(16):8109.

Application: WB, Human, U-2 OS cells

- [Defective p53 response and apoptosis associated with an ataxia-telangiectasia-like phenotype.](#)

Gueven N, Becherel OJ, Birrell G, Chen P, DelSal G, Carney JP, Grattan-Smith P, Lavin MF.

Cancer Research 2006 Mar; 66(6):2907.

Application: WB, Human, ATL2ABR cells

- [Distinct spatiotemporal dynamics of mammalian checkpoint regulators induced by DNA damage.](#)

Lukas C, Falck J, Bartkova J, Bartek J, Lukas J.

Nature Cell Biology 2003 Mar; 5(3):255.

Application: WB, Human, U-2-OS cells

Pathway

- [Homologous recombination](#)

Disease

- [Acute Disease](#)
- [Adenocarcinoma](#)
- [Astrocytoma](#)
- [Ataxia telangiectasia](#)
- [Brain Neoplasms](#)
- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Central Nervous System Neoplasms](#)

- [Chromosomal Instability](#)
- [Chromosome Aberrations](#)
- [Chromosome Breakage](#)
- [Chromosome Deletion](#)
- [Cleft Lip](#)
- [Cleft Palate](#)
- [Colorectal Neoplasms](#)
- [Disease Progression](#)
- [DNA Damage](#)
- [DNA Repair-Deficiency Disorders](#)
- [Esophageal Neoplasms](#)
- [Gastrointestinal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Genital Neoplasms](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Hematologic Diseases](#)
- [Hematologic Neoplasms](#)
- [Hodgkin Disease](#)
- [Kidney Failure](#)
- [Laryngeal Neoplasms](#)
- [Leukemia](#)
- [Lung Neoplasms](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Malignant melanoma](#)
- [Medulloblastoma](#)

- [Melanoma](#)
- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Mouth Neoplasms](#)
- [Multiple Sclerosis](#)
- [Neoplasms](#)
- [Neuroma](#)
- [Nijmegen Breakage Syndrome](#)
- [Obesity](#)
- [Occupational Diseases](#)
- [Ovarian cancer](#)
- [Ovarian Failure](#)
- [Ovarian Neoplasms](#)
- [Pancreatic Neoplasms](#)
- [Parkinson disease](#)
- [Polycystic Ovary Syndrome](#)
- [Precancerous Conditions](#)
- [Prostate cancer](#)
- [Prostatic Neoplasms](#)
- [Puberty](#)
- [Pulmonary Disease](#)
- [Skin Neoplasms](#)
- [Stomach Neoplasms](#)
- [Syndrome](#)
- [Thrombophilia](#)
- [Thyroid Neoplasms](#)

- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Uterine Cervical Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)