

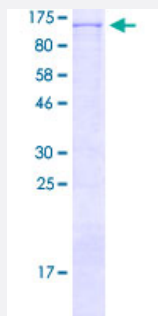
Full-Length

NBN (Human) Recombinant Protein (P01)

Catalog # H00004683-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human NBN full-length ORF (BAG35323.1, 1 a.a. - 754 a.a.) recombinant protein with GST tag at N-terminal.

Sequence

MWKLLPAAGPAGGEPYRLLTGVEYVVGKNCALIENTQSISRNHAVLTANFSVTNLSQTDEIPVLT
LKDNSKYGTFVNEEKMQNGFSRTLKSGDGITFGVFGSKFRIEYEPLVACSSCLDVSGKTALNQAIL
QLGGFTVNNWTEECTHLVMVSVKVTIKTICALICGRPIVKPEYFTEFLKAVQSKKQPPQIESFYPL
DEPSIGSKNVDLSGRQERKQIFKGKTFIFLNAKQHKKLSSAVVFGGGGEARLITEENEEHNFFLAP
GTCVVDTGITNSQTLIPDCQKKWQSIMDMLQRQGLRPIPEAEIGLAVIFMTTKNYCDPQGHSTGL
KTTTPGPSLSQGVSVDEKLMPSAPVNTTTYVADTESEQADTWDLSERPKEIKVSKMEQKFRMLS
QDAPTVKESCKTSSNNNSMVSNTLAKMRIPNYQLSPTKLPSINKSKDRASQQQQTNSIRNYFQPS
TKKRERDEENQEMSSCKSARIETSCSLLEQTQPATPSLWKNKEQHLSSENEPVDNTSDNNLFTDT
DLKSIVKNSASKSHAAEKLRSNKKREMDDVAIEDEVLEQLFKDTKPELEIDVKVQKQEEDEVNVRK
RPRMDIETNDTFSDEAVPESSKISQENEIGKKRELKEDSLWSAKEISNNDKLQDDSEMLPKKLLLT
EFRSLVIKNSTSRNPSGINDDYGLKNFKKFKKVTPGAGKLPHIIGGSDLIAHHARKNTELEEWLR
QEMEVQNQHAKEESLADDLFRYPYLR

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

111.4

Interspecies Antigen Sequence

Mouse (70); Rat (69)

Preparation Method

[in vitro wheat germ expression system](#)

Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — NBN

Entrez GeneID	4683
GeneBank Accession#	AK312410.1
Protein Accession#	BAG35323.1
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

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](#)