



# Recombinant Rat Nibrin (Nbn)

<b>Product Code</b>	CSB-BP015486RA
<b>Abbreviation</b>	Nbn
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	Q9JIL9
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Rattus norvegicus (Rat)
<b>Purity</b>	≥85% (SDS-PAGE)
<b>Sequence</b>	MWKLLPAASA APGEPCLLA GVEYIVGRKN CAIENDQS ISRNHAVLRV NFPVTSLSQT DEIPTLTIKD NSKYGTFINE EKMQNGLSST LKTGDRVTFG VFESKFRVEY EPLVVCSSCL DVSGKTVLNQ AILQLGGLTA NSWTEECTHL AMSSVKVTIK TICALICGRP IVKPEYFSEF LKAVESKTQP PEIESFYPPI DEPAIGNKSV DLSGRRERKQ IFKGKTFVFL NAKQHKKLGS AVVFGGGEAR LMAEGGEEEQ SFFSAPGTCV VDVGITNTQL IITDSQRKWI HLIMDILQRH GLRPIPEAEI GLAVIFMTTE SYCNPQGQPC TEVKTTTPGP SLSQGLSANG KVIPSAPMMN TTYVADTESE PADTCMSLSE RPEEVKIFGL DQNSRKLQ TCNIKETSNQ SSNSNNAASN TLVRGKAPNY QLSPMKCPAA SKNKDWSSQQ QLNSIKNYFQ PCSRKREDE ENPEQSSCKS SRVELSCSLL EQTQPAGPSL WKS KDHESQS ETLDRASNAS SVGGIDIKPN GKSPDSKSFS TEDLRARKRK EVDLSTEEEV LEELLRSTKP ELAVQVKVEK QEADVSIRKK PRMDAERNQH LNGGPVPESN SALQEDETGK KDELQIEAWS TKREVSNTDE LQDSSEELPR KLLLTEFRSL VVHNNSSRNL CVLNGRGELK NFKKFKKATC PGAGKLP GGSDLIGHHA RKNTELEEWL KHEMEVQKQQ AKEDSLADDL FRYNPNVKRR
<b>Source</b>	Baculovirus
<b>Target Names</b>	Nbn
<b>Protein Names</b>	Recommended name: Nibrin Alternative name(s): Nijmegen breakage syndrome protein 1 homolog
<b>Expression Region</b>	1-750
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	full length protein
<b>Target Details</b>	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.

---

**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

---

**Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.