

# Recombinant Human NBN 293 Cell Lysate

**Cat. No.** NBN-3957HCL    **Lot. No.** (See product label)

## SPECIFICATION

### Product Overview

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Species</b>             | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>              | HEK293                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>         | Antigen standard for nibrin (NBN) is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.                                                                                                                                       |
| <b>Components</b>          | This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol). |
| <b>Size</b>                | 0.1 mg                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Storage Instruction</b> | Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.                                                                                                                                                                                                                                                                   |
| <b>Applications</b>        | ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil                                                                                                                                                                                                                                                                                                                                                                       |

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the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

## GENE INFORMATION

|                            |                                                                                                                                                                                                                                                                                                                      |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | NBN nibrin [ Homo sapiens ]                                                                                                                                                                                                                                                                                          |
| <b>Official Symbol</b>     | NBN                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>            | NBN; nibrin; NBS, NBS1, Nijmegen breakage syndrome 1 (nibrin); AT V1; AT V2; ATV; cell cycle regulatory protein p95; Nijmegen breakage syndrome 1 (nibrin); p95 protein of the MRE11/RAD50 complex; NBS; P95; NBS1; AT-V1; AT-V2; FLJ10155; MGC87362;                                                                |
| <b>Gene ID</b>             | 4683                                                                                                                                                                                                                                                                                                                 |
| <b>mRNA Refseq</b>         | NM_002485                                                                                                                                                                                                                                                                                                            |
| <b>Protein Refseq</b>      | NP_002476                                                                                                                                                                                                                                                                                                            |
| <b>MIM</b>                 | 602667                                                                                                                                                                                                                                                                                                               |
| <b>UniProt ID</b>          | O60934                                                                                                                                                                                                                                                                                                               |
| <b>Chromosome Location</b> | 8q21-q24                                                                                                                                                                                                                                                                                                             |
| <b>Pathway</b>             | ATM mediated phosphorylation of repair proteins, organism-specific biosystem; ATM mediated response to DNA double-strand break, organism-specific biosystem; Assembly of the RAD50-MRE11-NBS1 complex at DNA double-strand breaks, organism-specific biosystem; BARD1 signaling events, organism-specific biosystem; |

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BRCA1-associated genome surveillance complex (BASC), organism-specific biosystem; DNA Repair, organism-specific biosystem; DNA damage response, organism-specific biosystem;

**Function**

contributes\_to ATP-dependent DNA helicase activity; contributes\_to damaged DNA binding; protein N-terminus binding; protein binding; transcription factor binding;

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