

Recombinant Human NBN 293 Cell Lysate

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

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	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.
Components	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).
Size	0.1 mg
Storage Instruction	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.
Applications	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

Gene Name	NBN nibrin [Homo sapiens]
Official Symbol	NBN
Synonyms	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;
Gene ID	4683
mRNA Refseq	NM_002485
Protein Refseq	NP_002476
MIM	602667
UniProt ID	O60934
Chromosome Location	8q21-q24
Pathway	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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