

Rabbit Anti-NBN Polyclonal Antibody

CPB-628RH Rabbit(NBN)
Lot. No. (See product label)

PRODUCT INFORMATION

Product Overview	Rabbit Anti-NBN Polyclonal Antibody
Antigen Description	Mutations in NBN 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.
specificity	The antibody detects endogenous level of NBN only when phosphorylated at serine 343.
Target	NBN
Immunogen	Peptide sequence around phosphorylation site of serine 343 (S-L-S(p)-Q-G) derived from Human NBN.
Host	Rabbit
Species	Human
Cross Reactivity	Human; Mouse; Rat
conjugation	N/A
Applications	WB

PACKAGING

Format	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C /1 year

ANTIGEN 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;
GeneID	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; 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;