

**Nibrin (phospho Ser343) rabbit pAb****Cat#: orb769209 (Manual)**

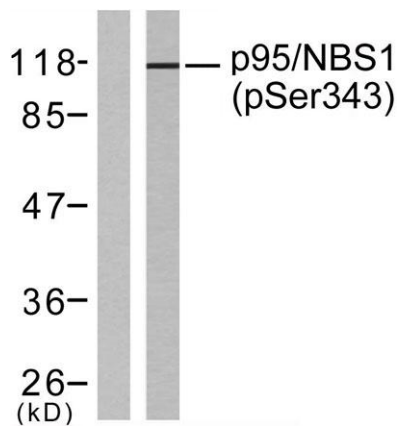
For research use only. Not intended for diagnostic use.

<b>Product Name</b>	Nibrin (phospho Ser343) rabbit pAb
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;ELISA
<b>Species Cross-Reactivity</b>	Human;Rat
<b>Recommended dilutions</b>	Western Blot: 1/500 - 1/2000. ELISA: 1/5000. Not yet tested in other applications.
<b>Immunogen</b>	The antiserum was produced against synthesized peptide derived from human p95/NBS1 around the phosphorylation site of Ser343. AA range:310-359
<b>Specificity</b>	Phospho-Nibrin (S343) Polyclonal Antibody detects endogenous levels of Nibrin protein only when phosphorylated at S343.
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide..
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Nibrin
<b>Gene Name</b>	NBN
<b>Cellular localization</b>	Nucleus . Nucleus, PML body . Chromosome, telomere . Chromosome . Localizes to discrete nuclear foci after treatment with genotoxic agents (PubMed:26438602, PubMed:10783165, PubMed:26215093). Acetylation of 'Lys-5' of histone H2AX (H2AXK5ac) promotes NBN/NBS1 assembly at the sites of DNA damage (PubMed:26438602). .
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	95kD
<b>Human Gene ID</b>	4683
<b>Human Swiss-Prot Number</b>	O60934
<b>Alternative Names</b>	NBN; NBS; NBS1; P95; Nibrin; Cell cycle regulatory protein p95; Nijmegen breakage syndrome protein 1

## Background

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, Jul 2008],



Western blot analysis of lysates from Jurkat cells, using p95/NBS1 (Phospho-Ser343) Antibody. The lane on the left is blocked with the phospho peptide.