

Product datasheet for **AP20504PU-N**

p95 NBS1 (NBN) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	Western blot: 1/500-1/1000. Immunofluorescence: 1/50-1/200.
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Specificity:	This antibody detects endogenous levels of NBS1 protein. (region surrounding Gly274)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 0.05% Sodium Azide
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 95 kDa
Gene Name:	nibrin
Database Link:	Entrez Gene 4683 Human O60934



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Background:

The p95 gene (identical to NBS1 and nibrin) is a member of the hMre11/hRad50 double-strand break complex (MRN complex). This protein complex has been implicated in Nijmegen breakage syndrome, an autosomal recessive disorder marked by increased cancer incidence, cell cycle checkpoint deficits, and ionizing radiation sensitivity, thus revealing a direct molecular link between double-strand break repair and cell cycle checkpoint functions. In case of infection by adenovirus E4, the MRN complex is inactivated and degraded by viral oncoproteins, thereby preventing concatenation of viral genomes in infected cells. NBS1 is expressed ubiquitously and presents high levels in testis.

Synonyms:

NBN, NBS, NBS1, P95

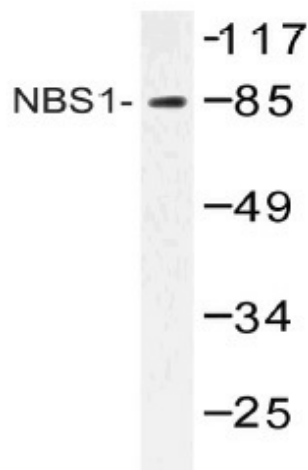
Protein Families:

Druggable Genome

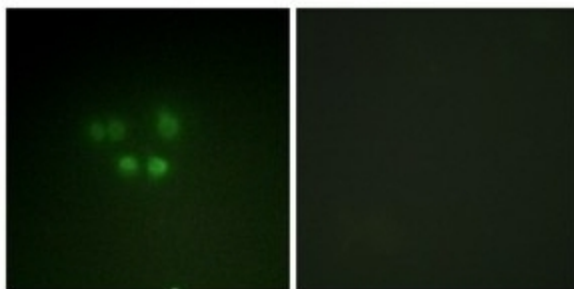
Protein Pathways:

Homologous recombination

Product images:



Western blot analysis of Nibrin antibody (Cat.-No AP20504PU-N) in extracts from Jurkat cells.



Immunofluorescence analysis of A549 cells using Nibrin antibody (Cat.-No AP20504PU-N). The picture on the right is treated with the synthesized peptide.