

## Product datasheet for **TA301768**

### **p95 NBS1 (NBN) Rabbit Polyclonal Antibody**

#### **Product data:**

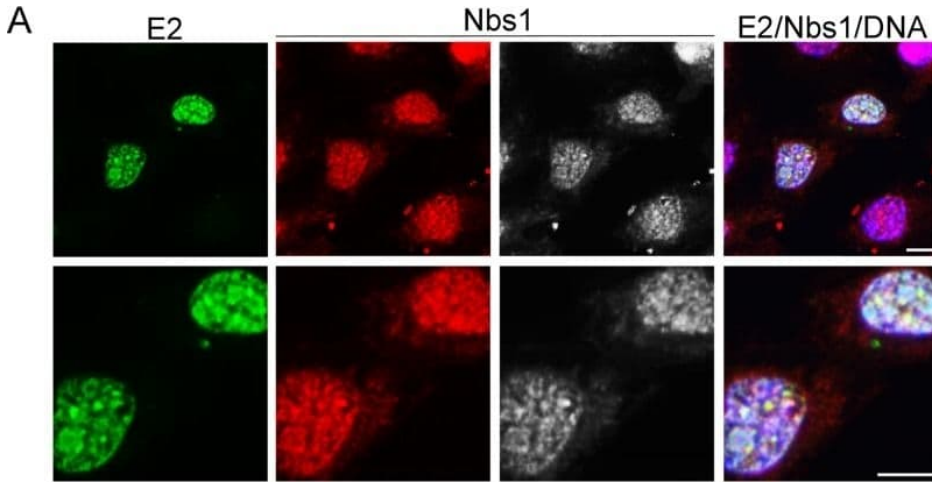
<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	ChIP, ELISA, FC, ICC/IF, IHC, Immunoblotting, IP, SDS-PAGE, WB
<b>Recommended Dilution:</b>	Chromatin Immunoprecipitation (ChIP), In-situ Hybridization, Western Blot: 1:1000, Knockdown Validated, ELISA, Immunohistochemistry: 1:100 - 1:200, Immunohistochemistry-Paraffin: 1:100 - 1:200, SDS-Page, Immunoblotting, Chromatin Immunoprecipitation, Flow Cytometry, Immunocytochemistry/ Immunofluorescence: 1:50-1:200, Immunoprecipitation: 3 ul, Knockout Validated
<b>Reactivity:</b>	Human
<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	Human NBS1 protein (between residues 1-705)
<b>Formulation:</b>	Whole antisera and 0.02% sodium azide
<b>Purification:</b>	Affinity purified
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Gene Name:</b>	nibrin
<b>Database Link:</b>	<a href="#">NP_002476</a> <a href="#">Entrez Gene 4683 Human</a> <a href="#">O60934</a>
<b>Background:</b>	The p95 gene (identical to NBS1 and nibrin) is a member of the hMre11/hRad50 double-strand break 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.
<b>Synonyms:</b>	AT-V1; AT-V2; ATV; NBS; NBS1; P95
<b>Protein Families:</b>	Druggable Genome



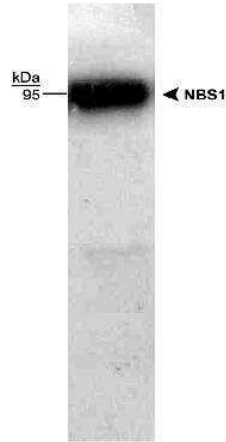
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Protein Pathways: Homologous recombination

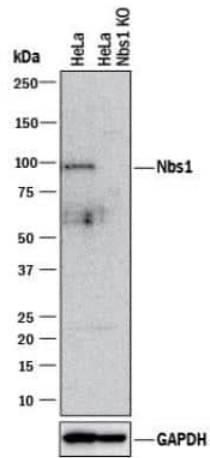
**Product images:**



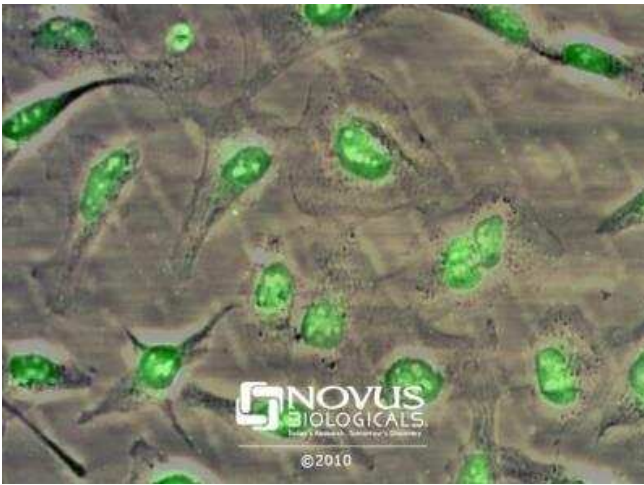
HPV16 E2 partially colocalizes with the MRN complex proteins Mre11 and Nbs1. C33a cells were transfected with an HPV16 E2 expression plasmid, fixed in ice-cold methanol, and stained with an E2-specific antibody (green). DNA was stained with Hoechst 33342 (blue). (A) Endogenous Nbs1 was detected with an Nbs1-specific antibody (red/gray). (B) Endogenous Mre11 was detected with an Mre11-specific rabbit antibody (red/gray). Bar, 5 µm. Digital zoom is shown at the bottom.



Western Blot: Nbs1 Antibody TA301768 - Analysis of HeLa whole cell lysate [NB800-PC1] using rabbit polyclonal NBS1 antibody TA301768. Observed Molecular Weight at ~95 kDa.



Knockout Validated: Nbs1 Antibody TA301768 - Lysates of HeLa human cervical epithelial carcinoma parental cell line and Nbs1 knockout (KO) HeLa cell line. PVDF membrane was probed with 1:1000 of Rabbit Anti-Human Polyclonal TA301768 followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (HAF008). Specific band was detected for Nbs1 at approximately 95 kDa (as indicated) in the parental HeLa cell line, but is not detectable in the knockout HeLa cell line. This experiment was conducted under reducing conditions.



Immunocytochemistry/Immunofluorescence: Nbs1 Antibody TA301768 - Staining of HeLa cells using Nbs1 Antibody TA301768.