

## Product datasheet for **UM800029CF**

### **p95 NBS1 (NBN) Mouse Monoclonal Antibody [Clone ID: UMAB99]**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Clone Name:</b>	UMAB99
<b>Applications:</b>	10k-ChIP, IF, IHC, WB
<b>Recommended Dilution:</b>	IHC 1:100, IF 1:100
<b>Reactivity:</b>	Human, Monkey
<b>Host:</b>	Mouse
<b>Isotype:</b>	IgG1
<b>Clonality:</b>	Monoclonal
<b>Immunogen:</b>	Human recombinant protein fragment corresponding to amino acids 461-754 of human NBN (NP_002476) produced in E.coli.
<b>Formulation:</b>	Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose)
<b>Reconstitution Method:</b>	For reconstitution, we recommend adding 100uL distilled water to a final antibody concentration of about 1 mg/mL. To use this carrier-free antibody for conjugation experiment, we strongly recommend performing another round of desalting process. (OriGene recommends Zeba Spin Desalting Columns, 7KMWCO from Thermo Scientific)
<b>Purification:</b>	Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)
<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>Predicted Protein Size:</b>	84.8 kDa
<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>



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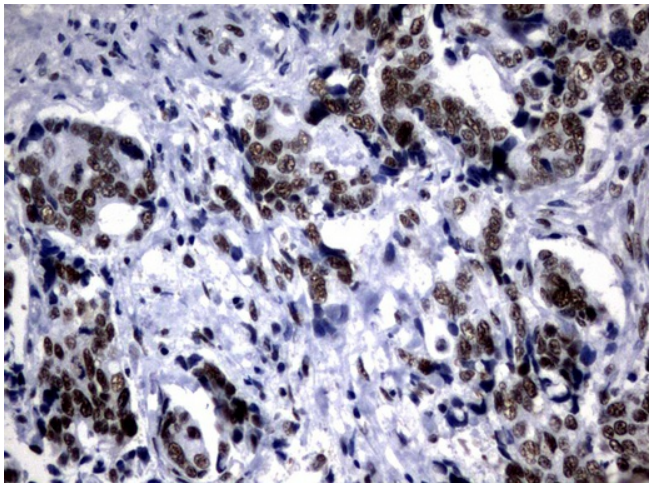
**Background:** Mutations in this gene are associated with Nijmegen breakage syndrome, an autosomal recessive chromosomal instability syndrome characterized by microcephaly, growth retardation, immunodeficiency, and cancer predisposition. The encoded protein is a member of the MRE11/RAD50 double-strand 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]

**Synonyms:** AT-V1; AT-V2; ATV; NBS; NBS1; P95

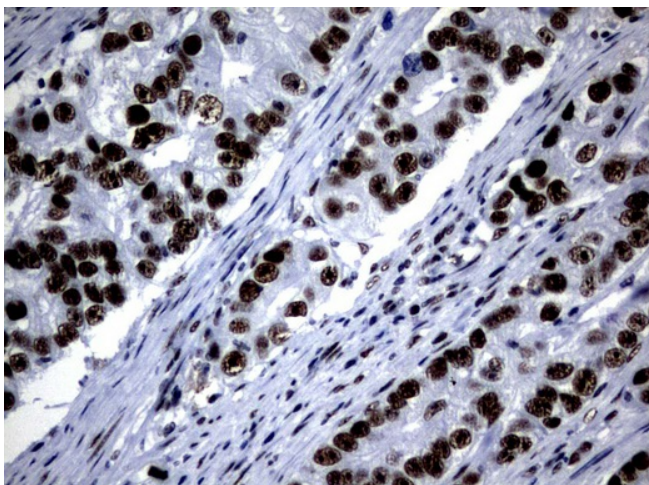
**Protein Families:** Druggable Genome

**Protein Pathways:** Homologous recombination

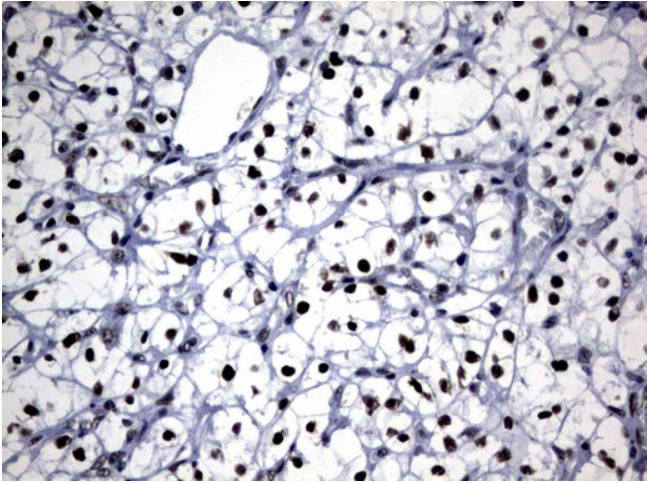
### Product images:



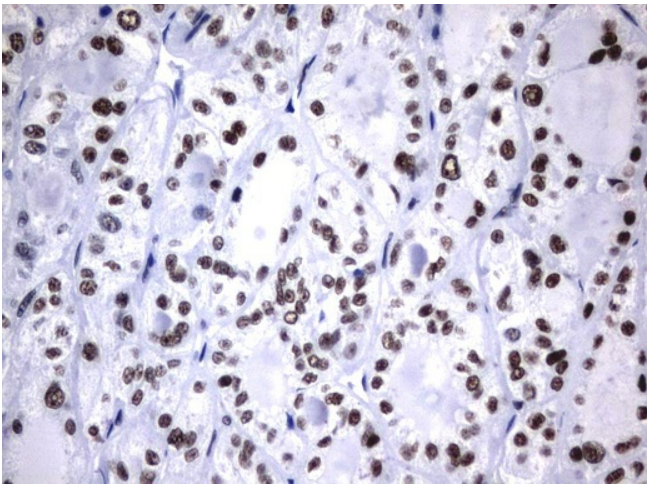
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-NBN mouse monoclonal antibody. ([UM800029]; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



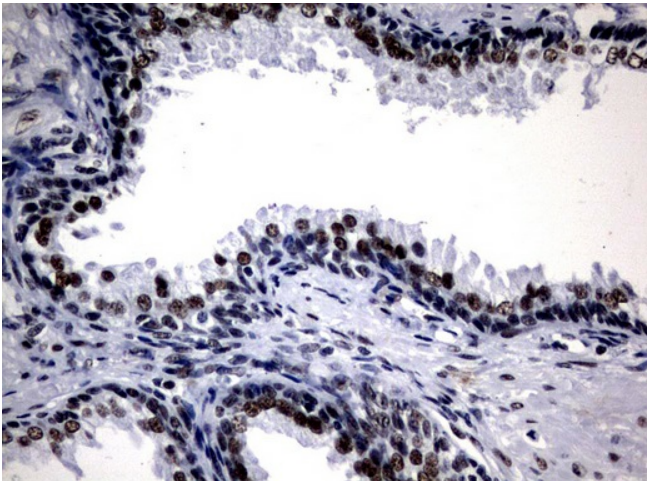
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-NBN mouse monoclonal antibody. ([UM800029]; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



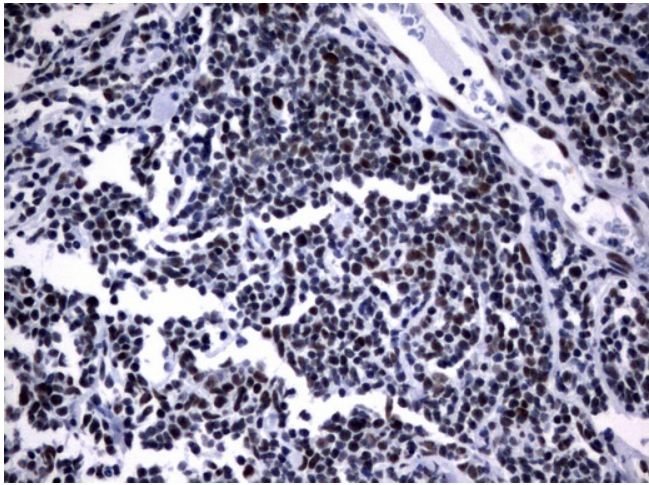
Immunohistochemical staining of paraffin-embedded Carcinoma of Human kidney tissue using anti-NBN mouse monoclonal antibody. ([UM800029]; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



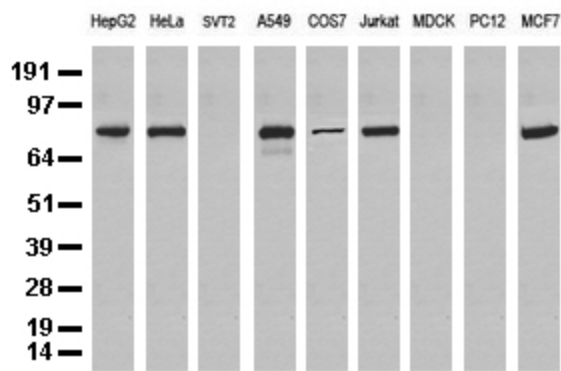
Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-NBN mouse monoclonal antibody. ([UM800029]; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



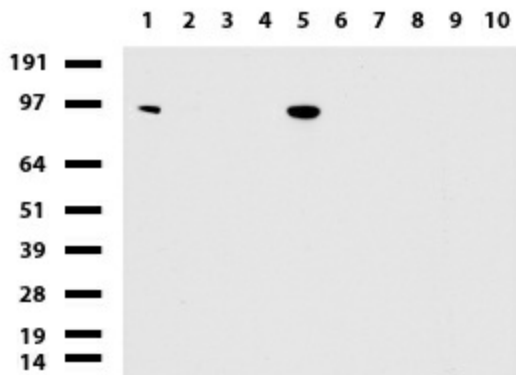
Immunohistochemical staining of paraffin-embedded Human prostate tissue using anti-NBN mouse monoclonal antibody. ([UM800029]; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



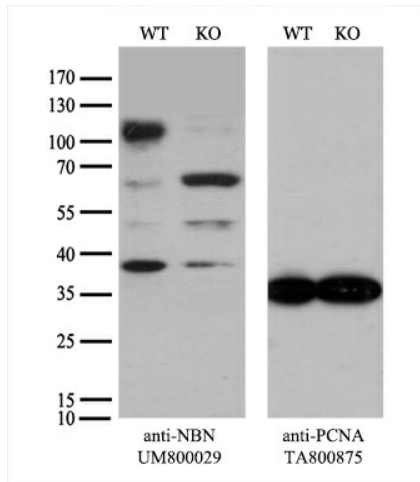
Immunohistochemical staining of paraffin-embedded Human lymphoma tissue using anti-NBN mouse monoclonal antibody. ([UM800029]; heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min)



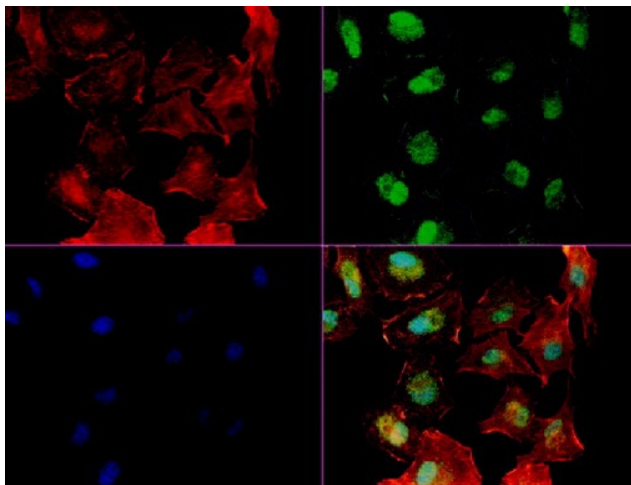
Western blot analysis of extracts (35ug) from 9 different cell lines by using anti-NBN monoclonal antibody (Clone UMAB99).



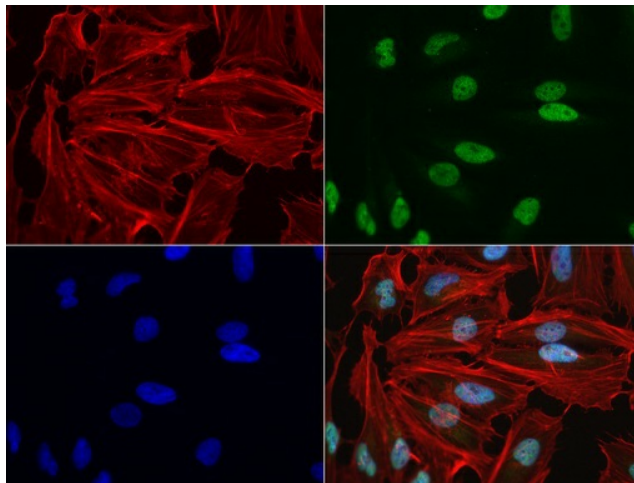
Western blot of human tissue lysates (15ug) from 10 different tissues (1: Testis, 2: Omentum, 3: Uterus, 4: Breast, 5: Brain, 6: Liver, 7: Ovary, 8: Thyroid, 9: Colon, 10: Spleen). Dilution: 1:500.



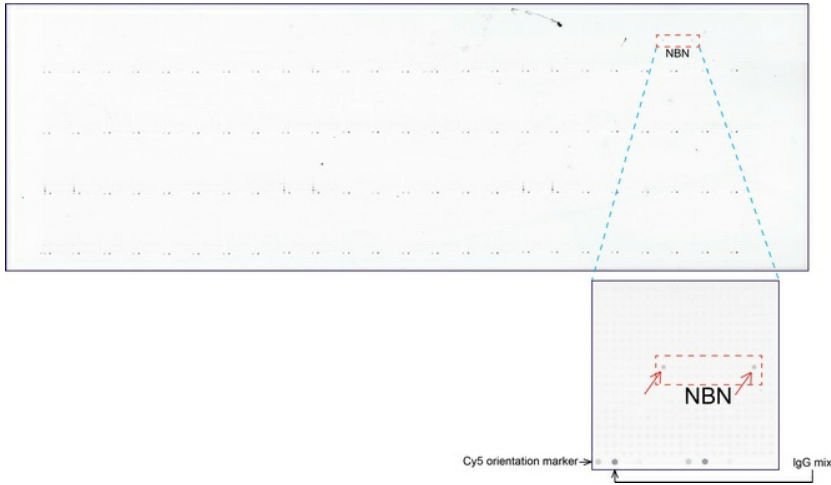
Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and NBN-Knockout HeLa cells (KO, Cat# [LC831313]) were separated by SDS-PAGE and immunoblotted with anti-NBN monoclonal antibody [UM800029] (1:500). Then the blotted membrane was stripped and reprobed with anti-PCNA antibody as a loading control.



Immunofluorescent staining of A549 cells using NBN mouse monoclonal antibody ([UM800029], green). Actin filaments were labeled with TRITC-phalloidin (red), and nuclear with DAPI (blue). The three-color overlay image is located at the bottom-right corner.



Immunofluorescent staining of HeLa cells using anti-NBN mouse monoclonal antibody ([UM800029], green, 1:100). Actin filaments were labeled with Alexa Fluor® 594 Phalloidin (red), and nuclear with DAPI (blue).



OriGene overexpression protein microarray chip was immunostained with UltraMAB anti-NBN mouse monoclonal antibody (UUM800029). The positive reactive proteins are highlighted with two red arrows in the enlarged subarray. All the positive controls spotted in this subarray are also labeled for clarification.