

Product datasheet for **CF801421**

p95 NBS1 (NBN) Mouse Monoclonal Antibody [Clone ID: OTI2F5]

Product data:

| | |
|--------------------------------|--|
| Product Type: | Primary Antibodies |
| Clone Name: | OTI2F5 |
| Applications: | IHC, WB |
| Recommended Dilution: | WB 1:2000, IHC 1:150 |
| Reactivity: | Human |
| Host: | Mouse |
| Isotype: | IgG2b |
| Clonality: | Monoclonal |
| Immunogen: | Human recombinant protein fragment corresponding to amino acids 183-460 of human NBN (NP_002476) produced in E.coli. |
| Formulation: | Lyophilized powder (original buffer 1X PBS, pH 7.3, 8% trehalose) |
| Reconstitution Method: | 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) |
| Purification: | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G) |
| Conjugation: | Unconjugated |
| Storage: | Store at -20°C as received. |
| Stability: | Stable for 12 months from date of receipt. |
| Predicted Protein Size: | 84.8 kDa |
| Gene Name: | Homo sapiens nibrin (NBN), transcript variant 1, mRNA. |
| Database Link: | NP_002476 Entrez Gene 4683 Human O60934 |



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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

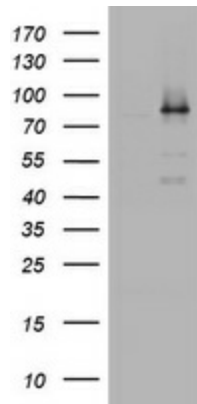
Protein Families:

Druggable Genome

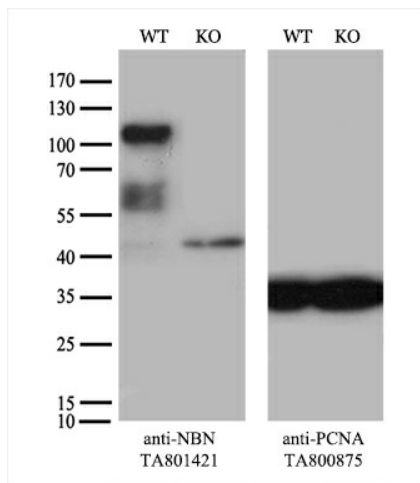
Protein Pathways:

Homologous recombination

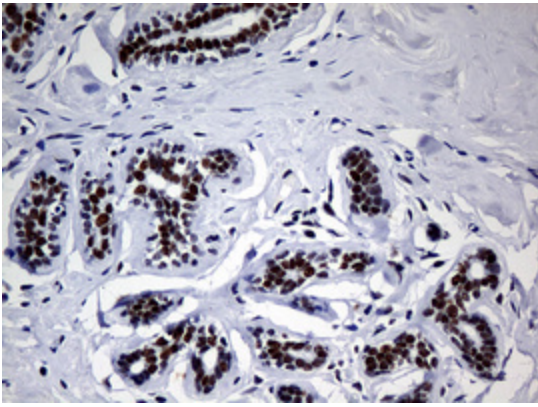
Product images:



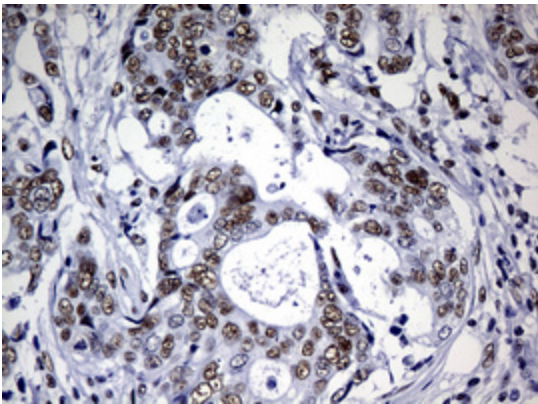
HEK293T cells were transfected with the pCMV6-ENTRY control (Left lane) or pCMV6-ENTRY NBN ([RC214682], Right lane) cDNA for 48 hrs and lysed. Equivalent amounts of cell lysates (5 ug per lane) were separated by SDS-PAGE and immunoblotted with anti-NBN. Positive lysates [LY419300] (100ug) and [LC419300] (20ug) can be purchased separately from OriGene.



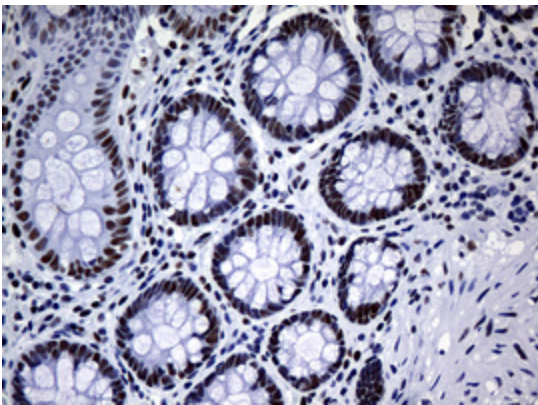
Equivalent amounts of cell lysates (10 ug per lane) of wild-type HeLa cells (WT, Cat# LC810HELA) and NBN-Knockout HeLa cells (KO, Cat# [LC831313]) were separated by SDS-PAGE and immunoblotted with anti-NBN monoclonal antibody [TA801421] (1:500). Then the blotted membrane was stripped and reprobbed with anti-PCNA antibody as a loading control.



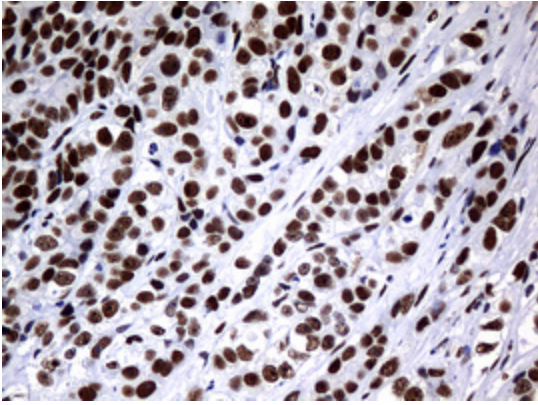
Immunohistochemical staining of paraffin-embedded Human breast tissue within the normal limits using anti-NBN mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA801421])



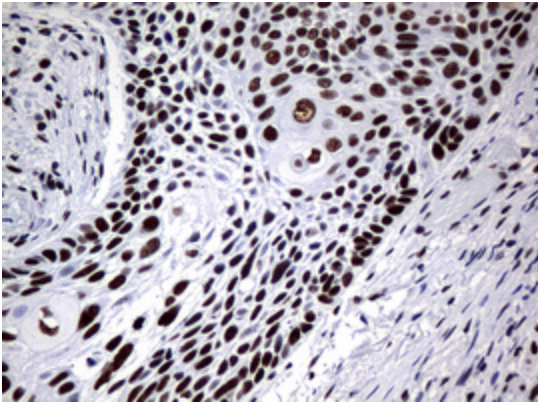
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human breast tissue using anti-NBN mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA801421])



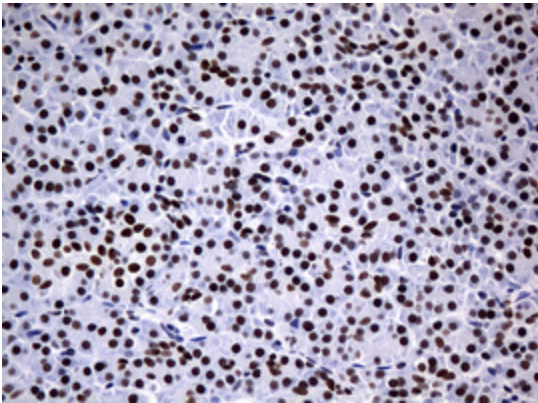
Immunohistochemical staining of paraffin-embedded Human colon tissue within the normal limits using anti-NBN mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA801421])



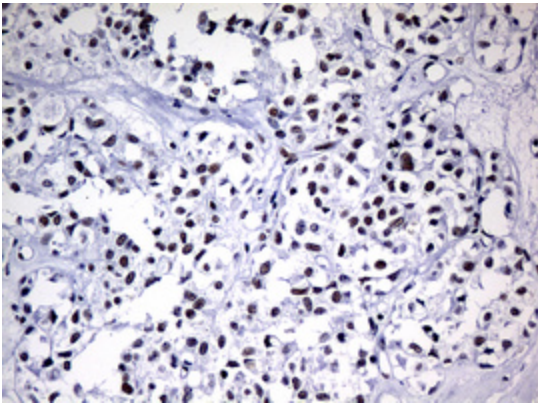
Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human colon tissue using anti-NBN mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA801421])



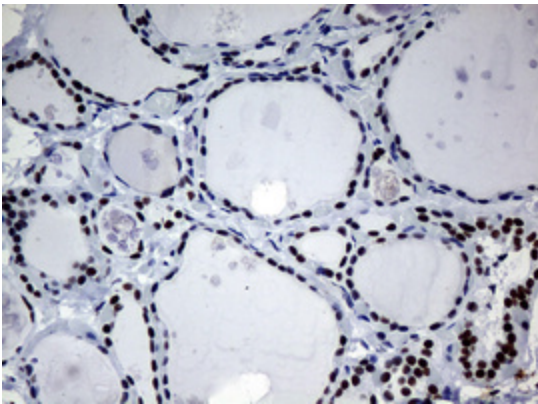
Immunohistochemical staining of paraffin-embedded Carcinoma of Human lung tissue using anti-NBN mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA801421])



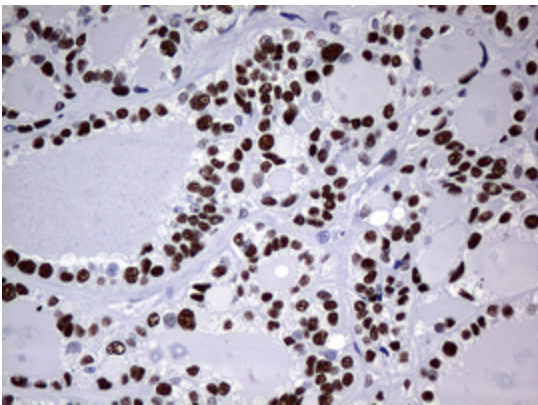
Immunohistochemical staining of paraffin-embedded Human pancreas tissue within the normal limits using anti-NBN mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA801421])



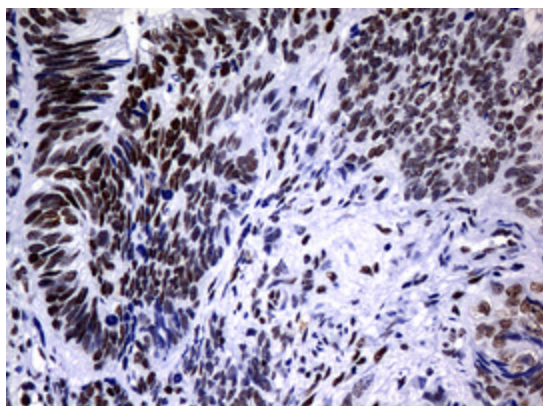
Immunohistochemical staining of paraffin-embedded Carcinoma of Human pancreas tissue using anti-NBN mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA801421])



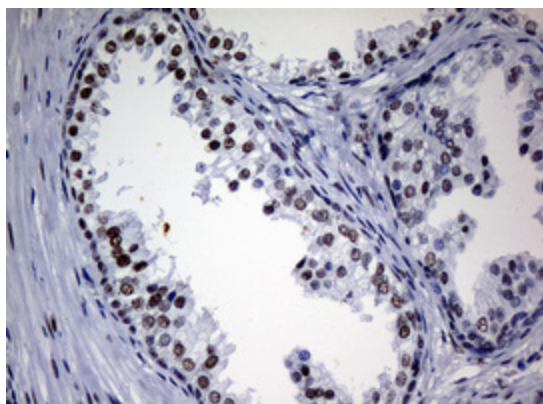
Immunohistochemical staining of paraffin-embedded Human thyroid tissue within the normal limits using anti-NBN mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA801421])



Immunohistochemical staining of paraffin-embedded Carcinoma of Human thyroid tissue using anti-NBN mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA801421])



Immunohistochemical staining of paraffin-embedded Adenocarcinoma of Human endometrium tissue using anti-NBN mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA801421])



Immunohistochemical staining of paraffin-embedded Human prostate tissue within the normal limits using anti-NBN mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA801421])