

## Product datasheet for **TA801422AM**

### **p95 NBS1 (NBN) Mouse Monoclonal Antibody (Biotin conjugated) [Clone ID: OTI3A4]**

#### **Product data:**

|                                |   |
|--------------------------------|---|
| <b>Product Type:</b>           | Primary Antibodies  |
| <b>Clone Name:</b>             | OTI3A4  |
| <b>Applications:</b>           | IHC, WB   |
| <b>Recommended Dilution:</b>   | WB 1:2000, IHC 1:150  |
| <b>Reactivity:</b>             | Human   |
| <b>Host:</b>                   | Mouse   |
| <b>Isotype:</b>                | IgG2a   |
| <b>Clonality:</b>              | Monoclonal  |
| <b>Immunogen:</b>              | Human recombinant protein fragment corresponding to amino acids 183-460 of human NBN (NP_002476) produced in E.coli.  |
| <b>Formulation:</b>            | PBS (pH 7.3) containing 1% BSA, 50% glycerol and 0.02% sodium azide.  |
| <b>Concentration:</b>          | 0.5 mg/ml   |
| <b>Purification:</b>           | Purified from mouse ascites fluids or tissue culture supernatant by affinity chromatography (protein A/G)   |
| <b>Conjugation:</b>            | Biotin  |
| <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><br><a href="#">Entrez Gene 4683 Human</a><br><a href="#">O60934</a>   |
| <b>Background:</b>             | 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] |



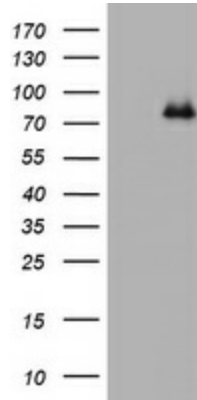
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**Synonyms:** AT-V1; AT-V2; ATV; NBS; NBS1; P95

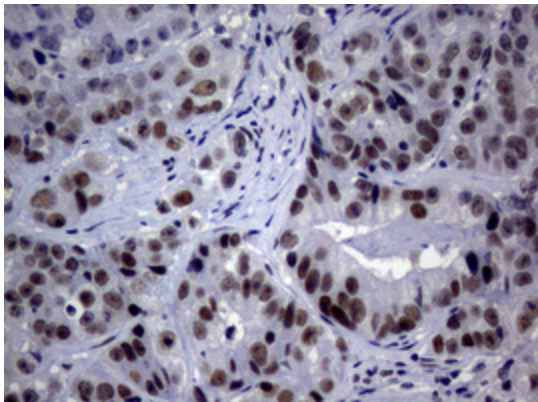
**Protein Families:** Druggable Genome

**Protein Pathways:** Homologous recombination

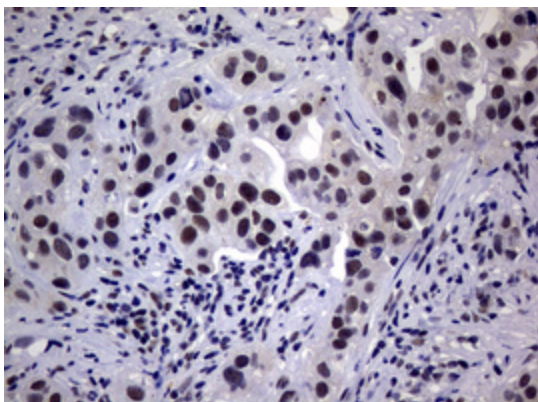
**Product images:**



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.



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, [TA801422])



Immunohistochemical staining of paraffin-embedded Carcinoma of Human bladder tissue using anti-NBN mouse monoclonal antibody. (Heat-induced epitope retrieval by 10mM citric buffer, pH6.0, 120°C for 3min, [TA801422])