

## **NBN Antibody (monoclonal) (M01)**

Mouse monoclonal antibody raised against a partial recombinant NBN.

Catalog # AT2976a

### **Specification**

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#### **NBN Antibody (monoclonal) (M01) - Product Information**

|                   |                           |
|-------------------|---------------------------|
| Application       | <b>WB, E</b>              |
| Primary Accession | <a href="#">O60934</a>    |
| Other Accession   | <a href="#">NM_002485</a> |
| Reactivity        | <b>Human</b>              |
| Host              | <b>mouse</b>              |
| Clonality         | <b>Monoclonal</b>         |
| Isotype           | <b>IgG2a Kappa</b>        |
| Calculated MW     | <b>84959</b>              |

#### **NBN Antibody (monoclonal) (M01) - Additional Information**

**Gene ID** 4683

#### **Other Names**

Nibrin, Cell cycle regulatory protein p95, Nijmegen breakage syndrome protein 1, NBN, NBS, NBS1, P95

#### **Target/Specificity**

NBN (NP\_002476, 645 a.a. ~ 754 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

#### **Dilution**

WB~~1:500~1000

#### **Format**

Clear, colorless solution in phosphate buffered saline, pH 7.2 .

#### **Storage**

Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

#### **Precautions**

NBN Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

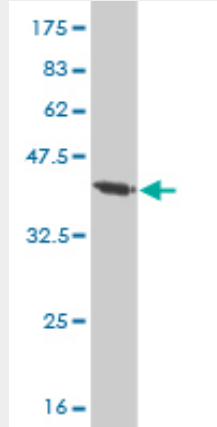
#### **NBN Antibody (monoclonal) (M01) - Protocols**

Provided below are standard protocols that you may find useful for product applications.

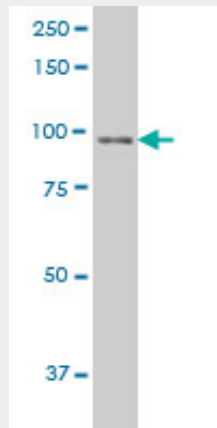
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

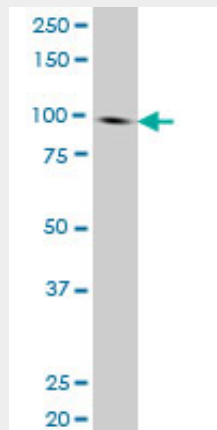
### NBN Antibody (monoclonal) (M01) - Images



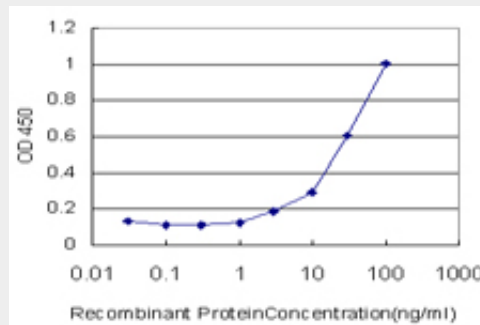
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (37.84 kDa) .



NBN monoclonal antibody (M01), clone 3E4 Western Blot analysis of NBN expression in COLO 320 HSR ( (Cat # AT2976a )



NBN monoclonal antibody (M01), clone 3E4 Western Blot analysis of NBN expression in HL-60 (Cat # AT2976a )



Detection limit for recombinant GST tagged NBN is approximately 3ng/ml as a capture antibody.

### **NBN Antibody (monoclonal) (M01) - 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.

### **NBN Antibody (monoclonal) (M01) - References**

Association between single-nucleotide polymorphisms of selected genes involved in the response to DNA damage and risk of colon, head and neck, and breast cancers in a Polish population. Jelonek K, et al. *J Appl Genet*, 2010. PMID 20720310. A large-scale candidate gene approach identifies SNPs in SOD2 and IL13 as predictive markers of response to preoperative chemoradiation in rectal cancer. Ho-Pun-Cheung A, et al. *Pharmacogenomics J*, 2010 Jul 20. PMID 20644561. Maternal genes and facial clefts in offspring: a comprehensive search for genetic associations in two population-based cleft studies from Scandinavia. Jugessur A, et al. *PLoS One*, 2010 Jul 9. PMID 20634891. Gamma-Radiation Sensitivity and Polymorphisms in RAD51L1 Modulate Glioma Risk. Liu Y, et al. *Carcinogenesis*, 2010 Jul 7. PMID 20610542. The NBS1 genetic polymorphisms and the risk of the systemic lupus erythematosus in Taiwanese patients. Lin YJ, et al. *J Clin Immunol*, 2010 Sep. PMID 20571895.