10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

NBN Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant NBN.
Catalog # AT2976a

Specification

NBN Antibody (monoclonal) (M01) - Product Information

Application	**WB, E**
Primary Accession	O60934
Other Accession	NM_002485
Reactivity	**Human**
Host	**mouse**
Clonality	**Monoclonal**
Isotype	**IgG2a Kappa**
Calculated MW	**84959**

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
E~~N/A

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

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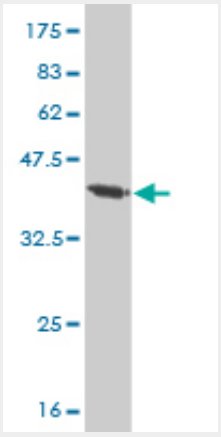
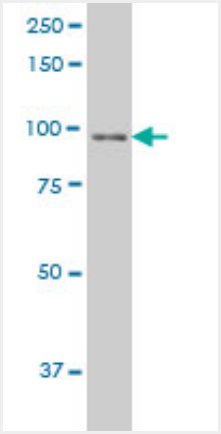
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

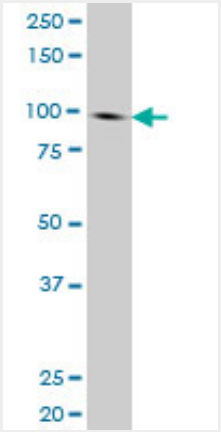
NBN Antibody (monoclonal) (M01) - Images



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)



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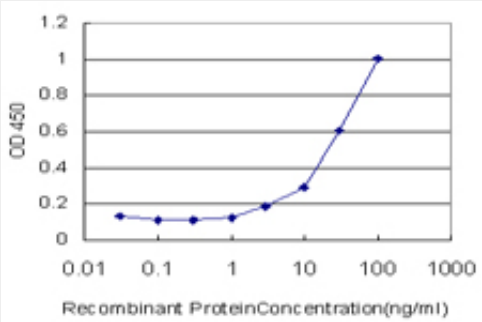
NBN monoclonal antibody (M01), clone 3E4 Western Blot analysis of NBN expression in HL-60 ((Cat # AT2976a)



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.