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NBN Antibody (monoclonal) (M01)

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

Product Information

Application	WB, E
Primary Accession	O60934
Other Accession	NM_002485
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	3E5
Calculated MW	84959

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.

Background

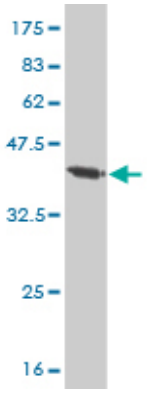
Mutations in this gene are associated with Nijmegen breakage syndrome, an autosomal recessive chromosomal instability syndrome characterized by microcephaly, growth retardation, immunodeficiency, and cancer predisposition. The encoded protein is a member of the MRE11/RAD50 double-strand break repair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

References

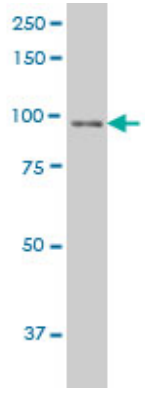
Association between single-nucleotide polymorphisms of selected genes involved in the response to DNA

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.

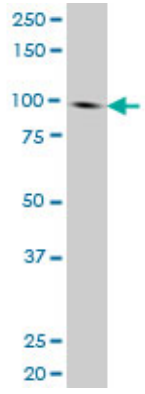
Images



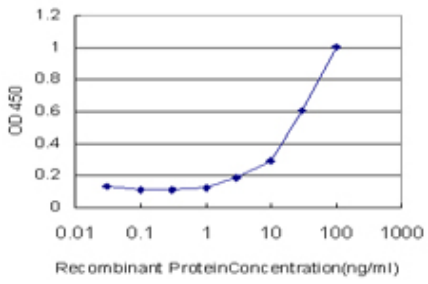
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (37.84 KDa) .



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.