Nur für Forschungszwecke

NBN Monoklonaler Antikörper

Katalog-Nr.:66980-1-Ig

proteintech®
Antibodies | ELISA kits | Proteins
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Allgemeine Informationen

Katalog-Nr.:
66980-1-Ig

Größe:
150ul , Konzentration: 2000 μg/ml von Nanodrop und 1000 μg/ml durch die Bradford-Methode mit BSA als Standard;

Wirt:
Maus

Isotyp:
IgG2a

Immunogen Katalognummer:
AG19320

GenBank-Zugangsnummer:
BC136803

GeneID (NCBI):
4683

Vollständiger Name:
nibrin

Berechneté Masse:
85 kDa

Beobachteté Masse:
95 kDa

Reinigungsmethode:
Protein-A-Reinigung

CloneNo.:
1E11E10

Empfohlene Verdünnungen:
WB 1:1000-1:6000
IF 1:50-1:500

Anwendungen

Geprüfte Anwendungen:
IF, WB,ELISA

Getestete Reaktivität:
Human

Positivkontrollen:

WB : SKOV-3-Zellen, LNCaP-Zellen

IF : HepG2-Zellen,

Hintergrundinformationen

NBN, also named as NBS, NBS1 and P95, is a component of the MRE11/RAD50/NBN (MRN complex) which plays a critical role in the cellular response to DNA damage and the maintenance of chromosome integrity. The complex is involved in double-strand break (DSB) repair, DNA recombination, maintenance of telomere integrity, cell cycle checkpoint control and meiosis. The complex possesses single-strand endonuclease activity and double-strand-specific 3'-5' exonuclease activity, which are provided by MRE11A. NBN modulate the DNA damage signal sensing by recruiting PI3/PI4-kinase family members ATM, ATR, and probably DNA-PKcs to the DNA damage sites and activating their functions. NBN also functions in telomere length maintenance by generating the 3' overhang which serves as a primer for telomerase dependent telomere elongation. NBN is a major player in the control of intra-S-phase checkpoint and there is some evidence that NBN is involved in G1 and G2 checkpoints. Defects in NBN are the cause of Nijmegen breakage syndrome (NBS). Defects in NBN are a cause of genetic susceptibility to breast cancer (BC). Defects in NBN may be associated with aplastic anemia. Defects in NBN might play a role in the pathogenesis of childhood acute lymphoblastic leukemia (ALL). The antibody is specific to NBN. The full-length NBN protein, with an apparent molecular weight of 95 kDa and the two protein fragments of 26 and 70 kDa arising from the c.657_661del5 (p.K219fsX19) mutation, and the 80 kDa protein found in patient RR with the mutation c.742_743insGG leading to excision of exons 6 and 7 from the NBN mRNA are shown. (PMID: 26265251) The predicted molecular weight of NBN protein (p95) is 85kDa, actually detection result is about 95kDa(PMID: 23762398).

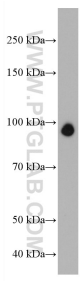
Lagerung

Lagerungsbedingungen:
Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil
Lagerungspuffer:
PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.
Aliquotieren ist nicht notwendig bei -20°C lagerung

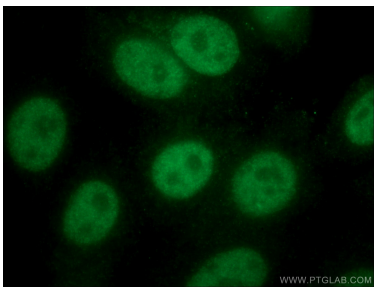
***** 20ul-Größen enthalten 0.1% BSA**

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

Ausgewählte Validierungsdaten



SKOV-3 cells were subjected to SDS PAGE followed by western blot with 66980-1-Ig (NBN antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 66980-1-Ig (NBN antibody) at dilution of 1:100 and CoraLite488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).