

Nur für Forschungszwecke

# NBS1 Polyklonaler Antikörper

Katalog-Nr.:55025-1-AP

Vorgestelltes Produkt

9 Publikationen



## Allgemeine Informationen

Katalog-Nr.:  
55025-1-AP

Größe:  
150ul, Konzentration: 240 µg/ml von  
Nanodrop und 227 µg/ml durch die  
Bradford-Methode mit BSA als  
Standard;

Wirt:  
Kaninchen

Isotyp:  
IgG

GenBank-Zugangsnummer:  
NM\_002485

GeneID (NCBI):  
4683

Vollständiger Name:  
nibrin

Berechnete Masse:  
85 kDa

Beobachtete Masse:  
90-95 kDa

Reinigungsmethode:

Antigen-Affinitätsreinigung

Empfohlene Verdünnungen:

WB 1:500-1:2400

IP 0.5-4.0 µg für IP und 1:500-1:1000  
für WB

IF 1:50-1:500

## Anwendungen

Geprüfte Anwendungen:

IF, IP, WB, ELISA

In Publikationen genannte Anwendungen:

IF, WB

Getestete Reaktivität:

Human, Maus, Ratte

Zitierte Arten:

Human, Maus

Positivkontrollen:

WB : HeLa-Zellen, HEK-293-Zellen, HepG2-Zellen,  
humanes Hodengewebe, Maushirngewebe

IP : HeLa-Zellen,

IF : HepG2-Zellen, A549-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).

## Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Tao Zhang	36050397	Nat Commun	WB
Mikio Shimada	31665364	J Radiat Res	WB
Yongtai Bai	31353207	Mol Cell	WB

## Lagerung

Lagerungsbedingungen:

Bei -20°C lagern.

Lagerungspuffer:

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

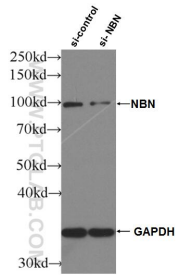
Aliquotieren ist nicht notwendig bei -20°C Lagerung

\*\*\* 20ul-Größen enthalten 0.1% BSA

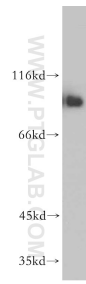
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

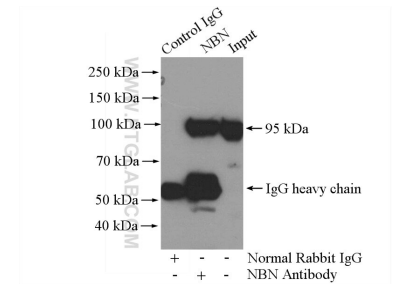
## Ausgewählte Validierungsdaten



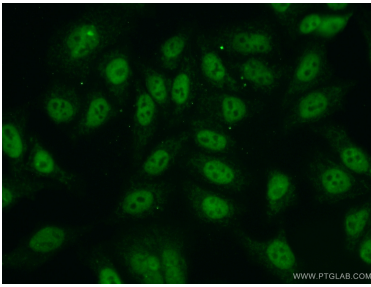
WB result of NBS1 antibody (55025-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NBS1 transfected HeLa cells.



HeLa cells were subjected to SDS PAGE followed by western blot with 55025-1-AP (NBS1 antibody) at dilution of 1:800 incubated at room temperature for 1.5 hours.



IP Result of anti-NBS1 (IP:55025-1-AP, 4ug; Detection:55025-1-AP 1:800) with HeLa cells lysate 880ug.



Immunofluorescent analysis of (10% Formaldehyde) fixed HepG2 cells using 55025-1-AP (NBS1 antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).