À des fins de recherche uniquement

Anticorps Polyclonal de lapin anti-NBS1

proteintech®
Antibodies | ELISA kits | Proteins
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Numéro de catalogue:55025-1-AP Phare 11 Publications

Informations de base

Numéro de catalogue:
55025-1-AP

Taille:
150ul , Concentration: 240 μg/ml by Nanodrop and 227 μg/ml by Bradford method using BSA as the standard;

Hôte:
Lapin

Isotype:
IgG

Numéro d'acquisition GenBank:
NM_002485

Identification du gène (NCBI):
4683

Nom complet:
nibrin

MW calculé
85 kDa

MW observés:
90-95 kDa

Méthode de purification:
Purification par affinité contre l'antigène

Dilutions recommandées:
WB 1:500-1:2400
IP 0.5-4.0 ug for IP and 1:500-1:1000 for WB
IF 1:50-1:500

Applications

Applications testées:
IF, IP, WB, ELISA

Demandes citées:
CoIP, IF, WB

Spécificité de l'espèce:
Humain, rat, souris

Espèces citées:
Humain, rat, souris

Contrôles positifs:

WB : cellules HeLa, cellules HepG2, tissu testiculaire humain

IP : cellules HeLa,

IF : cellules HepG2, cellules A549

Informations générales

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).

Publications notables

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

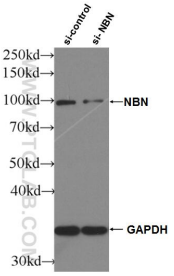
Stockage

Stockage:
Stocker à -20°C. Stable pendant un an après l'expédition.
Tampon de stockage:
PBS avec azoture de sodium à 0,02 % et glycérol à 50 % pH 7,3
L'aliquotage n'est pas nécessaire pour le stockage à -20C

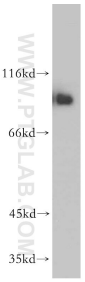
*** Les 20ul contiennent 0,1% de BSA.

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

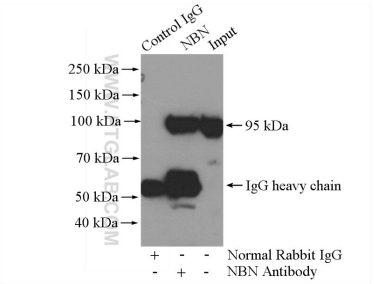
Données de validation sélectionnées



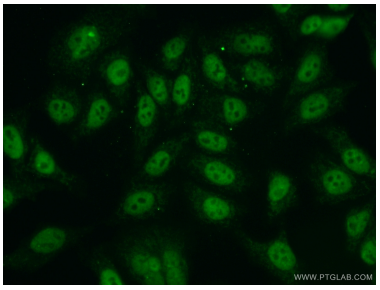
WB result of NBS1 antibody (55025-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-NBS1 transfected HeLa cells.



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).