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## Datasheet for ABIN762791 anti-Nibrin antibody (pSer343)

3 Images



#### Overview

Quantity:	100 μL
Target:	Nibrin (NBN)
Binding Specificity:	pSer343
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Nibrin antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

### Product Details

Immunogen:	KLH conjugated synthetic phosphopeptide derived from human NBS1 around the phosphorylation site of Ser343
Isotype:	IgG
Cross-Reactivity:	Mouse
Predicted Reactivity:	Human,Rat,Rabbit
Purification:	Purified by Protein A.
Target Details	

#### Target Details

Target:

#### Nibrin (NBN)

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Target Details	
Alternative Name:	p95 NBS1 (NBN Products)
Background:	Synonyms: ATV, NBS, P95, NBS1, AT-V1, AT-V2, Nibrin, Cell cycle regulatory protein p95,
	Nijmegen breakage syndrome protein 1, NBN
	Background: 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. RAD50 may be required to bind DNA ends and hold them in close
	proximity. 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. It can also recruit MRE11 and RAD50 to the proximity of DSBs by an interaction with
	the histone H2AX. 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. The roles of NBS1/MRN encompass DNA damage sensor,
	signal transducer, and effector, which enable cells to maintain DNA integrity and genomic
	stability.
Molecular Weight:	95kDa
Gene ID:	4683
UniProt:	060934
Pathways:	DNA Damage Repair, Production of Molecular Mediator of Immune Response
Application Details	
Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	IHC-P 1:200-400

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IHC-F 1:100-500

IF(ICC) 1:50-200

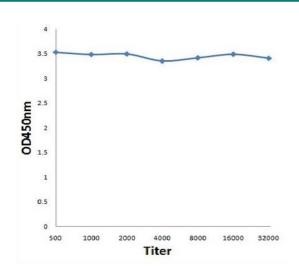
For Research Use only

Restrictions:

IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 Handling

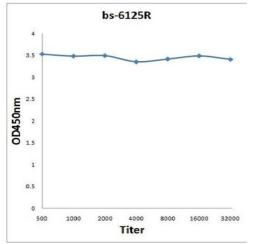
Format:	Liquid
Concentration:	1 μg/μL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months

#### Images



#### ELISA

**Image 1.** Antigen: 0.2ug/100ul, Primary: Antiserum, 1:500, 1:1000, 1:2000, 1:4000, 1:8000, 1:16000, 1:32000, Secondary: HRP conjugated Goat-Anti-Rabbit IgG at 1: 5000, TMB staining, Read the data in MicroplateReader by 450nm

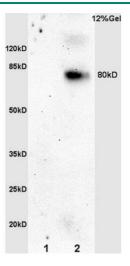


#### **ELISA**

**Image 2.** Antigen: 0.2 µg/100 µL Primary: Antiserum, 1:500, 1:1000, 1:2000, 1:4000, 1:8000, 1:16000, 1:32000; Secondary: HRP conjugated Goat-Anti-Rabbit IgG at 1: 5000; TMB staining; Read the data in MicroplateReader by 450

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#### Images



#### SDS-PAGE

**Image 3.** L1 rat brain lysates L2 mouse embryo lysates probed with Anti phospho-N (ABIN762791) at 1:200 overnight at 4 °C. Followed by conjugation to secondary antibody at 1:3000 for 90 min at 37 °C. Predicted band 85kD.Observed band 85kD.

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