

Anti-p95/NBS1 (phospho S343) antibody [EP178] ab109453

重组 RabMAb

3 References **4 图像**

概述

产品名称	Anti-p95/NBS1 (phospho S343)抗体[EP178]
描述	兔单克隆抗体[EP178] to p95/NBS1 (phospho S343)
宿主	Rabbit
经测试应用	适用于: ICC/IF, Dot blot, WB 不适用于: Flow Cyt or IHC-P
种属反应性	与反应: Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Jurkat, HeLa cell lysates (treated and untreated with Etoposide). ICC/IF: Jurkat cells treated with Etoposide (25uM) for 2 h
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
存储溶液	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant</p>
纯度	Protein A purified

克隆	单克隆
克隆编号	EP178
同种型	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab109453于以下的经测试应用

“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
ICC/IF		1/50 - 1/100.
Dot blot		Use at an assay dependent concentration.
WB		1/500 - 1/1000. Detects a band of approximately 95 kDa (predicted molecular weight: 84 kDa).

应用说明 Is unsuitable for Flow Cyt or IHC-P.

靶标

功能	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/P4-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. Forms a complex with RBBP8 to link DNA double-strand break sensing to resection. Enhances AKT1 phosphorylation possibly by association with the mTORC2 complex.
组织特异性	Ubiquitous. Expressed at high levels in testis.
疾病相关	Nijmegen breakage syndrome Breast cancer Aplastic anemia Defects in NBN might play a role in the pathogenesis of childhood acute lymphoblastic leukemia (ALL).
序列相似性	Contains 1 BRCT domain. Contains 1 FHA domain.
结构域	The FHA and BRCT domains are likely to have a crucial role for both binding to histone H2AFX and for relocalization of MRE11/RAD50 complex to the vicinity of DNA damage.

The C-terminal domain contains a MRE11-binding site, and this interaction is required for the nuclear localization of the MRN complex.

The EEXXXDDL motif at the C-terminus is required for the interaction with ATM and its recruitment to sites of DNA damage and promote the phosphorylation of ATM substrates, leading to the events of DNA damage response.

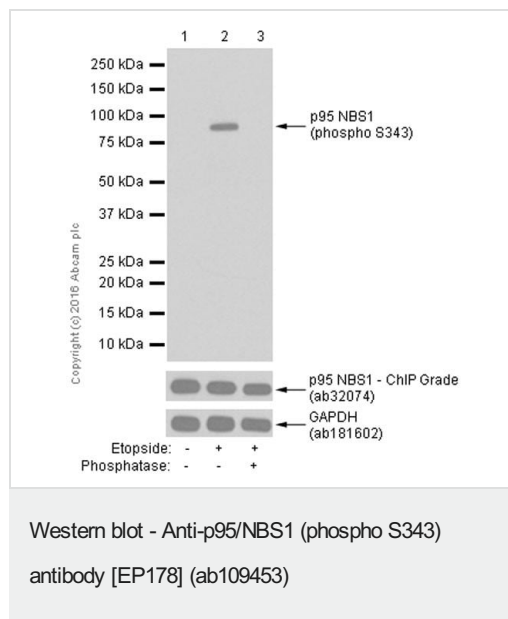
翻译后修饰

Phosphorylated by ATM in response of ionizing radiation, and such phosphorylation is responsible intra-S phase checkpoint control and telomere maintenance.

细胞定位

Nucleus. Nucleus, PML body. Chromosome, telomere. Localizes to discrete nuclear foci after treatment with genotoxic agents.

图片



All lanes : Anti-p95/NBS1 (phospho S343) antibody [EP178] (ab109453) at 1/5000 dilution

Lane 1 : Untreated HeLa (Human epithelial cell line from cervix adenocarcinoma) cells whole cell lysates

Lane 2 : HeLa (Human epithelial cell line from cervix adenocarcinoma) cells were treated with Etoposide whole cell lysates

Lane 3 : HeLa (Human epithelial cell line from cervix adenocarcinoma) cells were treated with Etoposide whole cell lysates. Then the membrane was incubated with Alkaline phosphatase.

Lysates/proteins at 15 µg per lane.

Secondary

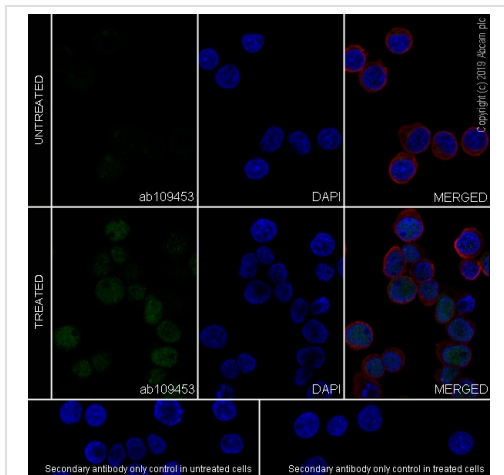
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 84 kDa

Observed band size: 95 kDa

Exposure time: 1 minute

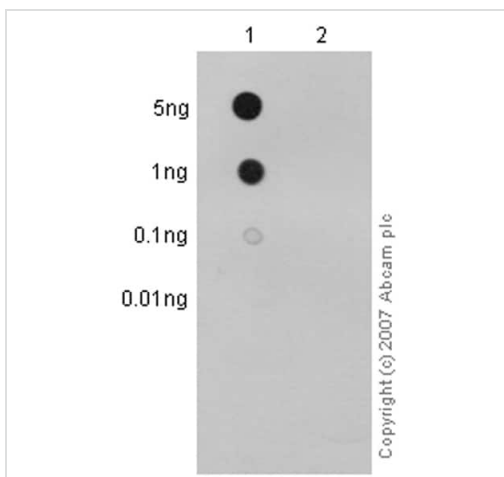
Blocking and diluting buffer: 5% NFDM/TBST



Immunocytochemistry/ Immunofluorescence - Anti-p95/NBS1 (phospho S343) antibody [EP178] (ab109453)

Immunocytochemistry analysis of Jurkat (human T cell leukemia T lymphocyte) labeling p95/NBS1 with purified ab109453 at 1/100 dilution. Cells were fixed with 4% Paraformaldehyde and permeabilised with 0.1% tritonX-100. Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/1000 (2 µg/ml) was used as the secondary antibody. **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.27 µg/ml) was used as counterstain. Nuclei were stained blue with DAPI. Negative control: PBS instead of the primary antibody.

Confocal image showing increased nuclear staining in Jurkat cells treated with Etoposide (25uM) for 2 h.



Dot Blot - Anti-p95/NBS1 (phospho S343) antibody [EP178] (ab109453)

Dot blot analysis of p95/NBS1 (pS343) peptide (Lane 1) and p95/NBS1 non-phospho peptide (Lane 2) labelling p95/NBS1 (phospho S343) with ab109453 at a dilution of 1/1000. A Peroxidase-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody at a dilution of 1/2500.

Blocking and dilution buffer: 5% NFDM/TBST.

Exposure time: 3 minutes.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

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(ab109453)

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