

# Anti-p95/NBS1 (phospho S432) antibody [EPR2470Y] ab75778

リコンビナント **RabMAb**

## 2 References [画像数 4](#)

### 製品の概要

|              |  |
|--------------|--|
| 製品名          | Anti-p95/NBS1 (phospho S432) antibody [EPR2470Y]   |
| 製品の詳細        | Rabbit monoclonal [EPR2470Y] to p95/NBS1 (phospho S432)  |
| 由来種          | Rabbit   |
| アプリケーション     | <b>適用あり:</b> IHC-P, Dot blot<br><b>適用なし:</b> Flow Cyt, ICC/IF, IP or WB  |
| 種交差性         | <b>交差種:</b> Human  |
| 免疫原          | Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.  |
| ポジティブ・コントロール | HeLa cell lysates, untreated or treated with doxorubicin and human testis tissue.  |
| 特記事項         | <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</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> |

### 製品の特性

|       |  |
|-------|--|
| 製品の状態 | Liquid   |
| 保存方法  | Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.                                |
| バッファー | pH: 7.20<br>Preservative: 0.01% Sodium azide<br>Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA |
| 精製度   | Protein A purified   |
| ポリ/モノ | モノクローナル  |
| クローン名 | EPR2470Y   |

## アプリケーション

**The Abpromise guarantee**      **Abpromise保証は、次のテスト済みアプリケーションにおけるab75778の使用に適用されます**  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご確認ください。

| アプリケーション | Abreviews | 特記事項   |
|----------|-----------|--|
| IHC-P    |           | 1/150 - 1/300. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.<br>See <b><u>IHC antigen retrieval protocols.</u></b><br><b>For unpurified use at 1/100 - 1/250.</b> |
| Dot blot |           | 1/1000.  |

**追加情報**      Is unsuitable for Flow Cyt, ICC/IF, IP or WB.

## ターゲット情報

|              |   |
|--------------|---|
| <b>機能</b>    | 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/P14-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. |
| <b>組織特異性</b> | Ubiquitous. Expressed at high levels in testis.   |
| <b>関連疾患</b>  | Nijmegen breakage syndrome<br>Breast cancer<br>Aplastic anemia<br>Defects in NBN might play a role in the pathogenesis of childhood acute lymphoblastic leukemia (ALL).   |
| <b>配列類似性</b> | Contains 1 BRCT domain.<br>Contains 1 FHA domain.   |
| <b>ドメイン</b>  | 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.<br>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.

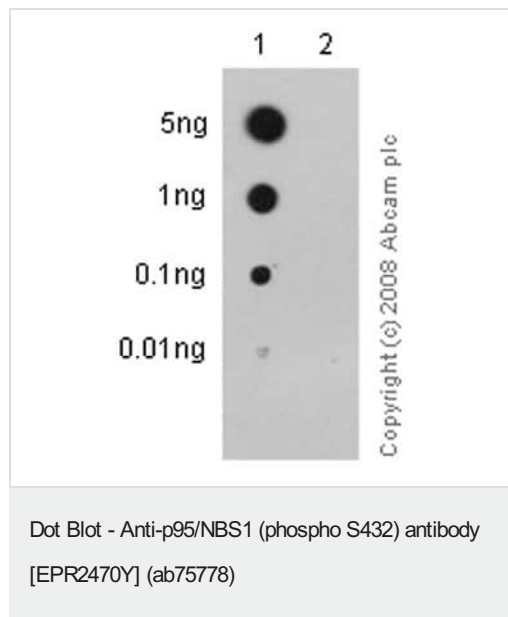
#### 翻訳後修飾

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

#### 細胞内局在

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

#### 画像



Primary antibody dilution: 1/1000

Secondary antibody: goat anti-rabbit IgG, (H+L), peroxidase conjugated

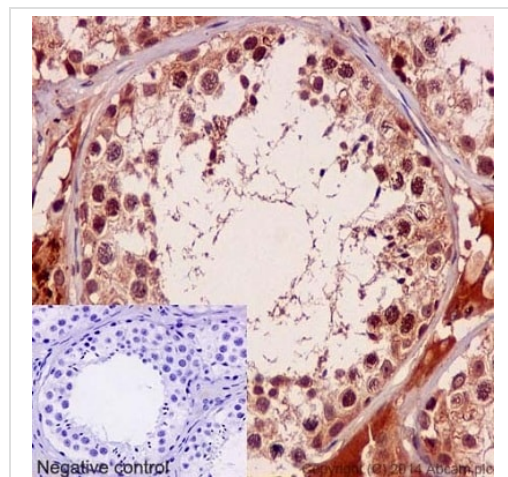
Secondary antibody dilution: 1/2500

Blocking & dilution buffer: 5% NFDM/TBST

Lane 1 sample: p95/NBS1 (pS432) phospho peptide

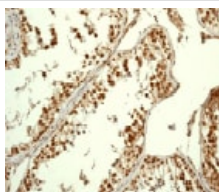
Lane 2 sample: p95/NBS1 non-phospho peptide

Exposure time: 3 minutes



ab75778 staining p95/NBS1 (phospho S432) in Human testis tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed and paraffin-embedded, antigen retrieval was by heat mediation in Tris/EDTA buffer pH9. Samples were incubated with primary antibody (1/300). An undiluted HRP-conjugated mouse anti-rabbit IgG was used as the secondary antibody. Tissue counterstained with Hematoxylin. PBS was used in the negative control rather than the Primary antibody.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p95/NBS1 (phospho S432) antibody [EPR2470Y] (ab75778)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-p95/NBS1 (phospho S432) antibody [EPR2470Y] (ab75778)

ab75778 at 1/100-1/250 dilution staining p95/NBS1 in human testis by Immunohistochemistry, Paraffin-embedded tissue.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

### 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

Anti-p95/NBS1 (phospho S432) antibody  
[EPR2470Y] (ab75778)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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