

HRP Anti-Nucleophosmin (phospho T199) antibody [EP1857Y] ab202879

リコンビナント RabMAb

画像数 3

製品の概要

| | |
|--------------|---|
| 製品名 | HRP Anti-Nucleophosmin (phospho T199) antibody [EP1857Y] |
| 製品の詳細 | HRP Rabbit monoclonal [EP1857Y] to Nucleophosmin (phospho T199) |
| 由来種 | Rabbit |
| 標識 | HRP |
| アプリケーション | 適用あり: Dot blot, WB |
| 種交差性 | 交差種: 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 | WB: HEK-293 treated with Calyculin A. |
| 特記事項 | Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents . |

製品の特性

| | |
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| 製品の状態 | Liquid |
| 保存方法 | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Store in the Dark. |
| バッファー | pH: 7.40 Preservative: 0.1% Proclin 300 Solution Constituents: PBS, 30% Glycerol (glycerin, glycerine), 1% BSA |
| 精製度 | Immunogen affinity purified |
| ポリ/モノ | モノクローナル |
| クローン名 | EP1857Y |
| アイソタイプ | IgG |

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ab202879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検討ください。

| アプリケーション | Abreviews | 特記事項 |
|----------|-----------|---|
| Dot blot | | 1/1000. |
| WB | | 1/50000. Detects a band of approximately 33 kDa (predicted molecular weight: 33 kDa). |

ターゲット情報

機能

Involved in diverse cellular processes such as ribosome biogenesis, centrosome duplication, protein chaperoning, histone assembly, cell proliferation, and regulation of tumor suppressors p53/TP53 and ARF. Binds ribosome presumably to drive ribosome nuclear export. Associated with nucleolar ribonucleoprotein structures and bind single-stranded nucleic acids. Acts as a chaperonin for the core histones H3, H2B and H4. Stimulates APEX1 endonuclease activity on apurinic/aprimidinic (AP) double-stranded DNA but inhibits APEX1 endonuclease activity on AP single-stranded RNA. May exert a control of APEX1 endonuclease activity within nucleoli devoted to repair AP on rDNA and the removal of oxidized rRNA molecules. In concert with BRCA2, regulates centrosome duplication. Regulates centriole duplication: phosphorylation by PLK2 is able to trigger centriole replication. Negatively regulates the activation of EIF2AK2/PKR and suppresses apoptosis through inhibition of EIF2AK2/PKR autophosphorylation. Antagonizes the inhibitory effect of ATF5 on cell proliferation and relieves ATF5-induced G2/M blockade (PubMed:22528486).

関連疾患

A chromosomal aberration involving NPM1 is found in a form of non-Hodgkin lymphoma. Translocation t(2;5)(p23;q35) with ALK. The resulting chimeric NPM1-ALK protein homodimerize and the kinase becomes constitutively activated.

A chromosomal aberration involving NPM1 is found in a form of acute promyelocytic leukemia. Translocation t(5;17)(q32;q11) with RARA.

A chromosomal aberration involving NPM1 is a cause of myelodysplastic syndrome (MDS). Translocation t(3;5)(q25.1;q34) with MLF1.

Defects in NPM1 are associated with acute myelogenous leukemia (AML). Mutations in exon 12 affecting the C-terminus of the protein are associated with an aberrant cytoplasmic location.

配列類似性

Belongs to the nucleoplasmin family.

翻訳後修飾

Acetylated at C-terminal lysine residues, thereby increasing affinity to histones.

ADP-ribosylated.

Phosphorylated at Ser-4 by PLK1 and PLK2. Phosphorylation at Ser-4 by PLK2 in S phase is required for centriole duplication and is sufficient to trigger centriole replication. Phosphorylation at Ser-4 by PLK1 takes place during mitosis. Phosphorylated by CDK2 at Ser-125 and Thr-199. Phosphorylation at Thr-199 may trigger initiation of centrosome duplication. Phosphorylated by CDK1 at Thr-199, Thr-219, Thr-234 and Thr-237 during cell mitosis. When these four sites are phosphorylated, RNA-binding activity seem to be abolished. May be phosphorylated at Ser-70 by NEK2. The Thr-199 phosphorylated form has higher affinity for ROCK2. CDK6 triggers Thr-199 phosphorylation when complexed to Kaposi's sarcoma herpesvirus (KSHV) V-cyclin, leading to viral reactivation by reducing viral LANA levels.

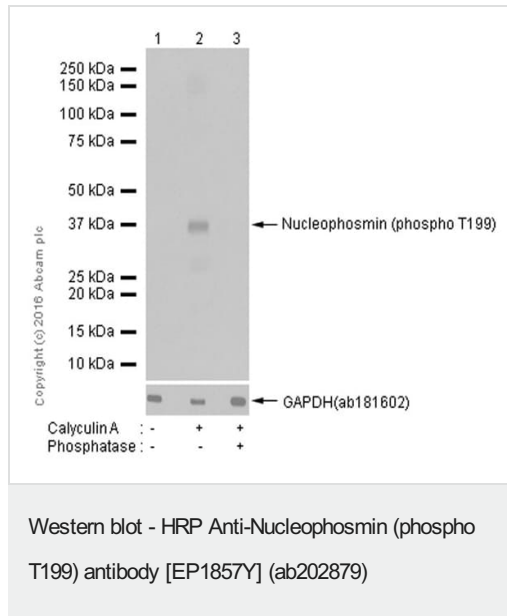
Sumoylated by ARF.

細胞内局在

Nucleus, nucleolus. Nucleus, nucleoplasm. Cytoplasm, cytoskeleton, microtubule organizing center, centrosome. Generally nucleolar, but is translocated to the nucleoplasm in case of serum starvation or treatment with anticancer drugs. Has been found in the cytoplasm in patients with

primary acute myelogenous leukemia (AML), but not with secondary AML. Can shuttle between cytoplasm and nucleus. Co-localizes with the methylated form of RPS10 in the granular component (GC) region of the nucleolus. Colocalized with nucleolin and APEX1 in nucleoli. Isoform 1 of NEK2 is required for its localization to the centrosome during mitosis.

画像



All lanes : HRP Anti-Nucleophosmin (phospho T199) antibody [EP1857Y] (ab202879) at 1/50000 dilution

Lane 1 : Untreated HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysates

Lane 2 : HEK-293 (Human epithelial cell line from embryonic kidney) treated with 0.1 μ M Calyculin A for 60 minutes whole cell lysates

Lane 3 : HEK-293 (Human epithelial cell line from embryonic kidney) treated with 0.1 μ M Calyculin A for 60 minutes whole cell lysates. Then the membrane was incubated with Alkaline phosphatase.

Lysates/proteins at 15 μ g per lane.

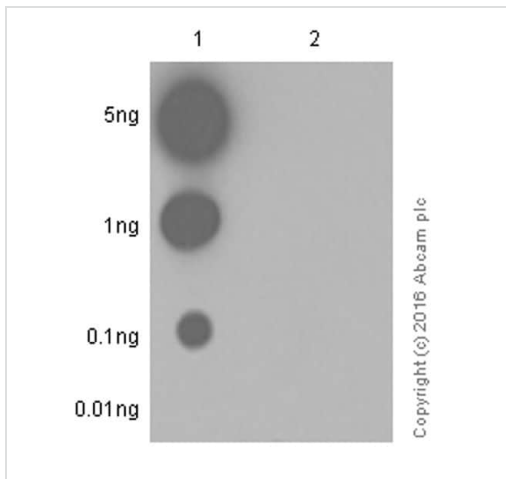
Predicted band size: 33 kDa

Additional bands at: 38 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 1 second

Blocking buffer: 5% NFDN/TBST

Diluting buffer: 5% NFDN/TBST



Dot Blot - HRP Anti-Nucleophosmin (phospho T199) antibody [EP1857Y] (ab202879)

ab202879 binding Nucleophosmin (phospho T199) in Dot blot at a dilution of 1/1000.

Lane 1: Nucleophosmin phospho T199 peptide


Lane 2: Nucleophosmin non-phospho peptide

Exposure time: 10 seconds


Diluting buffer: 5%NFDM/TBST

Blocking buffer: 5%NFDM/TBST


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

HRP Anti-Nucleophosmin (phospho T199) antibody [EP1857Y] (ab202879)

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

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