

# Anti-Phospho-Nucleophosmin (T199) Antibody [JE63-16]

## HA722125



<b>Product Type:</b>	Recombinant Rabbit monoclonal IgG, primary antibodies
<b>Species reactivity:</b>	Human
<b>Applications:</b>	WB
<b>Molecular Wt:</b>	Predicted band size: 33 kDa
<b>Clone number:</b>	JE63-16

**Description:** Nucleophosmin (NPM), also known as nucleolar phosphoprotein B23 or numatrin, is a protein that in humans is encoded by the NPM1 gene. NPM1 is associated with nucleolar ribonucleoprotein structures and binds single-stranded and double-stranded nucleic acids, but it binds preferentially G-quadruplex forming nucleic acids. It is involved in the biogenesis of ribosomes and may assist small basic proteins in their transport to the nucleolus. Its regulation through SUMOylation (by SENP3 and SENP5) is another facet of the protein's regulation and cellular functions. It is located in the nucleolus, but it can be translocated to the nucleoplasm in case of serum starvation or treatment with anticancer drugs.

**Immunogen:** Synthetic phosphopeptide corresponding to residues surrounding Thr199 of Human Nucleophosmin.

**Positive control:** HeLa cell lysate, HeLa treated with 100ng/mL Nocodazole for 17 hours cell lysate.

**Subcellular location:** Nucleus, nucleolus, nucleoplasm, Cytoplasm, cytoskeleton, microtubule organizing center, centrosome

**Database links:** SwissProt: P06748 Human

**Recommended Dilutions:**  
**WB** 1:2,000-1:5,000

**Storage Buffer:** 1\*TBS (pH7.4), 0.05% BSA, 40% Glycerol. Preservative: 0.05% Sodium Azide.

**Storage Instruction:** Shipped at 4°C. Store at +4°C short term (1-2 weeks). It is recommended to aliquot into single-use upon delivery. Store at -20°C long term.

**Purity:** Protein A affinity purified.

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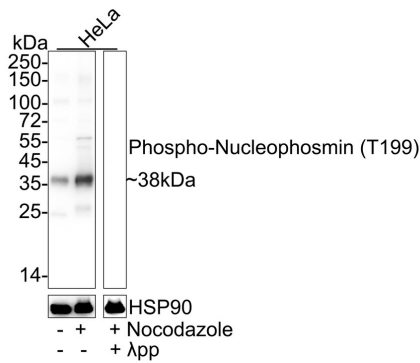
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## Images



**Fig1:** Western blot analysis of Phospho-Nucleophosmin (T199) on different lysates with Rabbit anti-Phospho-Nucleophosmin (T199) antibody (HA722125) at 1/2,000 dilution.

Lane 1: HeLa cell lysate

Lane 2: HeLa treated with 100ng/mL Nocodazole for 17 hours cell lysate

Lane 3: HeLa treated with 100ng/mL Nocodazole for 17 hours cell lysate, then the membrane treated with λpp for 1 hour

Lysates/proteins at 15 µg/Lane.

Predicted band size: 33 kDa

Observed band size: 38 kDa

Exposure time: 2 seconds; ECL: K1801;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA722125) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

## Background References

1. Cela I et al. Nucleophosmin in Its Interaction with Ligands. *Int J Mol Sci.* 2020 Jul
2. Sekhar KR et al. Nucleophosmin Plays a Role in Repairing DNA Damage and Is a Target for Cancer Treatment. *Cancer Res.* 2023 May

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