

**DATASHEET**

**Nucleophosmin Mouse Monoclonal Antibody(C3678)**

CAT. NO. AMA03290

**KEY FEATURES**

Target	Nucleophosmin	Source / Host	Mouse
Reactivity	Human, Rat	Clonality	Monoclonal
Applications	WB	Conjugation	Unconjugated
Form / Buffer	Mouse IgG1. Supplied in crude ascites with 0.01% sodium azide.	Storage	at-20°C

**BACKGROUND**

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.

**APPLICATION**

To ensure optimal assay performance, AREX recommends conducting reagent titration tailored to each testing system for optimal detection results.

WB	1:500 - 1:1000
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\*Results are sample-specific. Please refer to your local assay conditions and test parameters for reference.

**PRODUCT OVERVIEW**

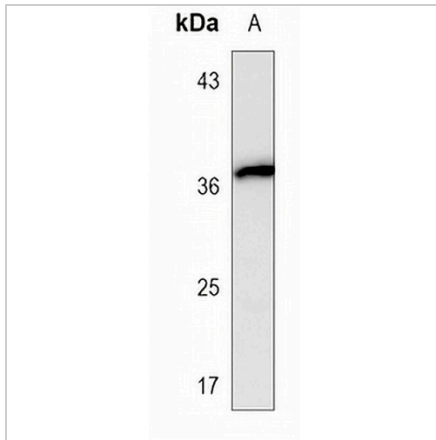
Description	Mouse monoclonal antibody to Nucleophosmin
Specificity	Recognizes endogenous levels of Nucleophosmin protein.
Antibody Type	Primary antibody
Immunogen	Recombinant fusion protein of human Nucleophosmin. The exact sequence is proprietary.
Molecular Weight	Predicted: 32 kD; Observed: 37 kD
Form/Buffer	Mouse IgG1. Supplied in crude ascites with 0.01% sodium azide.
Alternative Names	NPM; Nucleophosmin; NPM; Nucleolar phosphoprotein B23; Nucleolar protein NO38; Numatrin
Gene Symbol	NPM1
Entrez Gene	4869(Human); 25498(Rat)
SwissProt	P06748(Human); P13084(Rat)

\*AREX continuously optimizes our products. Webpage content may not reflect the latest updates. For inquiries, please contact [info@arexbio.com](mailto:info@arexbio.com) or your local distributor.

\*Clone Number, Reactivity, Source/Host and Clonality can be found in the product name and Key Features section above.

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**DATA**

Western blot analysis of Nucleophosmin expression in rat heart (A) whole cell lysates.  
(Predicted band size: 32 kD; Observed band size: 37 kD)

**STORAGE**

Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.

**NOTE**

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.