

## ABfinity™ Nucleostemin Recombinant Rabbit Monoclonal Antibody

Publication Part No. MAN0006626

Rev. 1.00

Catalog Number: 701157

Store at 2 to 8°C (short-term), or -20°C (long-term)

**Clonality:** Monoclonal  
**Concentration:** 0.5 mg/mL  
**Quantity:** 100 µg  
**Volume:** 200 µL

**Host/Class:** Rabbit IgG  
**Reactivity:** Human Nucleostemin  
**Predicted Reactivity:** Human

### Product Description

Nucleostemin, also known as Guanine nucleotide-binding protein-like 3 (GNL3) is a stem cell marker found in the nucleoli of embryonic stem cells, CNS stem cells, primitive cells in bone marrow, and cancer cells. It is known to interact with the tumor suppressor protein p53. Nucleostemin plays a role in controlling the cell proliferation rate and apoptosis level in embryonic stem (ES) cells and ES cell-derived neural stem/progenitor cells.

### Product Specifications

**Immunogen:** Recombinant protein corresponding to amino acids 1–180 of Human Nucleostemin  
**Alternate Names:** GNL3, NS, E2IG3  
**Apparent MW:** ~62 kDa  
**Gene ID:** 26354  
**Protein Accession No.:** Q9BVP2  
**Sequence Identity:** Human  
**Sequence Homology:** Mouse, Rat, Monkey, Horse, Rabbit  
**Clone/PAD:** 3H20L2  
**Lot:** See product label

### Product Applications

Application	Species	Test Material	Concentration
Western blotting	Human	HeLa cells	1–3 µg/mL
Immunocytochemistry	Human	U2OS cells	1–3 µg/mL
Indirect ELISA	Human	Recombinant protein	1.5 × 10 <sup>-4</sup> to 3 µg/mL

### Storage and Handling

Store the antibody at 2 to 8°C for up to 1 month, or -20°C for long storage. Avoid repeated freezing and thawing.

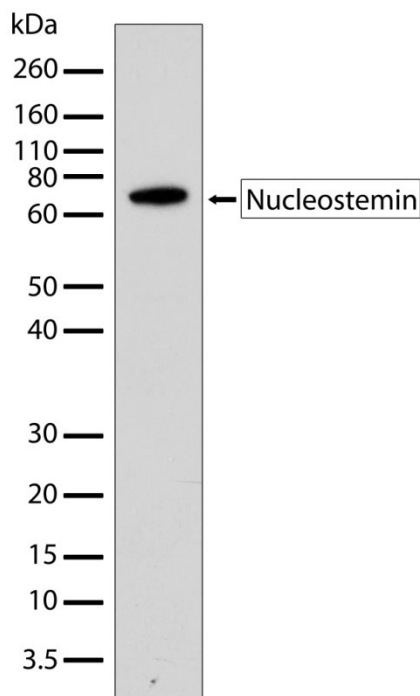
### Stability

Expires one year from date of receipt when stored as instructed.

### Storage Buffer

Phosphate buffered saline (PBS) with 0.09% sodium azide.

**Caution:** Sodium azide is an extremely toxic and dangerous compound particularly when combined with acids or metals. Properly dispose of solutions containing sodium azide.



**Figure 1** Western blot analysis of ABfinity™ Nucleostemin Recombinant Rabbit Monoclonal Antibody (Cat. no. 701157). Western blot analysis was performed on HeLa whole cell extracts. Endogenous Nucleostemin at ~62 kDa was detected using ABfinity™ Nucleostemin Recombinant Rabbit Monoclonal Antibody at a concentration of 2 µg/mL. The blot was developed using chemiluminescence (ECL) method.

**For research use only. Not for human or animal therapeutic or diagnostic use.**

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## Product Documentation

To obtain a Certificate of Analysis or Safety Data Sheets (SDSs), visit [www.lifetechnologies.com/support](http://www.lifetechnologies.com/support).

## Related Products

Product Name	Quantity	Catalog no.
iBlot® Dry Blotting System	1 unit	IB1001
WesternBreeze® Chromogenic Kit Anti-Rabbit	1 kit	WB7105
WesternBreeze® Chemiluminescent Kit, Anti-Rabbit	1 kit	WB7106
Goat anti-mouse (H+L), HRP conj.	1 mg	G21040
Goat anti-rabbit (H+L), HRP conj.	1 mg	G21234
Goat anti-mouse (H+L), AP conj.	1 mg	G21060
Goat anti-rabbit (H+L), AP conj.	1 mg	G21079
Nitrocellulose, 0.2 µm	20/pack	LC2000

### Explanation of symbols

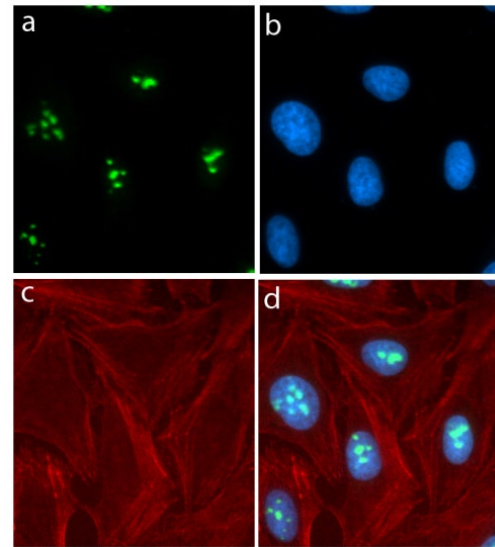
Symbol	Description	Symbol	Description
	Catalogue Number		Batch code
	Research Use Only		In vitro diagnostic medical device
	Use by		Temperature limitation
	Manufacturer		European Community authorised representative
	Without, does not contain		With, contains
	Protect from light		Consult accompanying documents
	Directs the user to consult instructions for use (IFU), accompanying the product.		

## Limited Product Warranty

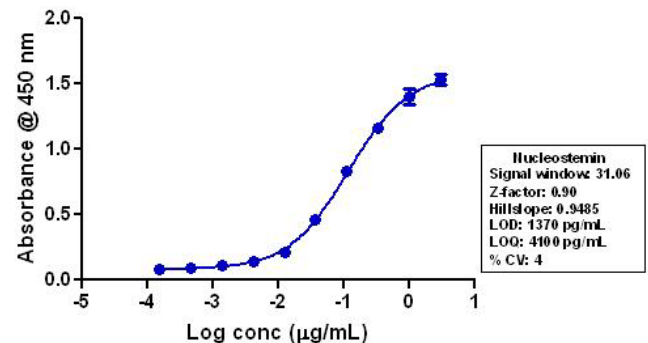
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**Figure 2** Immunocytochemistry analysis of ABfinity™ Nucleostemin Recombinant Rabbit Monoclonal Antibody (Cat. no. 701157). Immunocytochemistry analysis of U2OS cells stained with ABfinity™ Nucleostemin Recombinant Rabbit Monoclonal Antibody, using **a:** Alexa Fluor® 488 goat anti-rabbit as a secondary antibody (green). **b:** DAPI stained U2OS nuclei (blue). **c:** Actin stained with Alexa Fluor® 594 phalloidin (red). **d:** Composite image of cells showing nuclear localization of Nucleostemin.



**Figure 3** Indirect ELISA of ABfinity™ Nucleostemin Recombinant Rabbit Monoclonal Antibody (Cat. no. 701157). Indirect ELISA was performed using various dilutions of ABfinity™ Nucleostemin Recombinant Rabbit Monoclonal Antibody (Cat. no. 701157) to detect recombinant Nucleostemin protein coated onto the plate. A non-linear regression analysis was performed (4 PL) and LOD and LOQ for the antibody was determined.

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15 March 2012

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