



Mab to Nucleolar Protein NO38

Clone Determination	No-63
Category	Mouse monoclonal
Immunoglobulin Subclass	IgG _{2a}
Purification/Form	Ascites fluid
Immunogen	Nucleolar fraction prepared from <i>Xenopus laevis</i> oocytes
Description / Specificity	The antibody recognizes a 38 kD nucleolar protein (NO38) in <i>Xenopus</i> (this protein has also been termed B23, nucleophosmin, numatrin in other species). No-63 stains specifically the granular component of the nucleolus and small nucleolar dots in interphase cells. During mitosis the protein is localized accumulated around the condensed chromosomes.
Antigen(s) Recognized in Species (tested so far)	<i>Xenopus laevis</i> , <i>Xenopus borealis</i> , <i>Pleurodelis waltl</i> , <i>Triturus cristatus</i> ; XLKE-A6 cells; chicken
Application	Immunofluorescence microscopy on frozen sections (also after fixation with paraformaldehyde) Immunoblotting (Western) Immunoprecipitation (from <i>Xenopus</i> oocyte extracts nucleoplasmin - a 30 kD protein - is co-precipitated, which shows high sequence homology to NO38)
Working Dilution	1:300 - 1:500 for immunohistochemistry 1:1000 - 1:2000 for Western blot (ECL method) Special note: for blotting transfer nitrocellulose sheets are superior to nylon sheets
Incubation time	1 h at RT
Storage	At 2-8°C
Volume	0.25 mL (contains 0.09% NaN ₃)

References

1. Schmidt-Zachmann MS, Hügle-Dörr B, Franke WW. A constitutive nucleolar protein identified as a member of the nucleoplasmin family. *EMBO J.* **6**, 1881-1890 (1987).
2. Zirwes RF, Kouzmenko AP, Peters J-M, Franke WW, Schmidt-Zachmann MS. Topogenesis of a nucleolar protein: determination of molecular segments directing nucleolar association. *Mol. Biol. Cell* **8**, 231-248 (1997).
3. Zirwes RF, Schmidt-Zachmann MS, Franke WW. Identification of a small, very acidic constitutive nucleolar protein (NO29) as a member of the nucleoplasmin family. *Proc. Natl. Acad. Sci. USA* **94**, 11387-11392 (1997).
4. Kneissel S, Franke WW, Gall JG, Heid H, Reidenbach S, Schnölzer M, Spring H, Zentgraf H, Schmidt-Zachmann M. A novel karyoskeletal protein: Characterization of protein NO145, the major component of nucleolar cortical skeleton in *Xenopus* oocytes. *Mol. Biol. Cell* **12**, 3904-3918 (2001).

Cat. No. 612123