



Mab to Nucleolar Protein xNopp180

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| Clone Determination | No-114 |
| Category | Mouse monoclonal |
| Immunoglobulin Subclass | IgG ₁ |
| Purification/Form | Hybridoma culture supernatant |
| Immunogen | Nucleolar fraction prepared from <i>Xenopus laevis</i> oocytes |
| Description / Specificity | The antibody stains specifically the nucleolus and Cajal bodies in interphase cells. The antigen is a constitutively expressed nucleolar component and a specific marker for the dense fibrillar component of the interphase nucleolus. The protein recognized is a 180 kD polypeptide in <i>Xenopus</i> (xNopp180), homologue to the rat polypeptide (Nopp140). When applied at high concentration to human cells the antibody reacts with a nucleolar component which, however, does not correspond to xNopp180. |
| Antigen(s) Recognized in Species (tested so far) | <i>Xenopus laevis</i> , <i>Xenopus borealis</i> , XLKE-A6 cells; (human, see above); negative with <i>Pleurodelis</i> , <i>Triturus</i> , <i>Rana</i> , chicken, rat, mouse |
| Application | Immunofluorescence microscopy on frozen sections (also after fixation with paraformaldehyde) Immunoblotting (Western) Immunoprecipitation (|
| Working Dilution | 1:5 - 1:10 for immunohistochemistry 1:50 for Western blot (ECL method) |
| Incubation time | 1 h at RT |
| Storage | At 2-8°C |
| Volume | 5 mL (contains 0.09% NaN ₃) |

References

Schmidt-Zachmann MS, Hügler B, Scheer U, Franke WW. Identification and localization of a novel nucleolar protein of high molecular weight by a monoclonal antibody. *Exp. Cell Res.* **153**, 327-346 (1984).
Cairns C, McStay B. Identification and cDNA cloning of a *Xenopus* nucleolar phosphoprotein, xNopp180, that is the homolog of the rat nucleolar protein Nopp140. *J. Cell Sci.* **108**, 3339-3347 (1995).
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. 651124