Nucleolin (NCL, Nucl, C23, FLJ45706, Protein C23)

Catalog number

N6945-01E

Supplier

United States Biological

Nucleolin is an abundant, 106kD nucleolar phosphoprotein. It is the major protein in actively dividing cells, whereas the degraded forms are relatively abundant in non-dividing cells. Stability of the nucleolin protein is cell proliferation-dependent. It plays a role in rDNA transcription, organization, and rRNA processing. It may alter DNA organization in response to cell cycle controls. It is also a good mammalian nucleolus marker.

Cellular Localization

Nucleoli

Positive Control

PD31 murine pre-B cells for immunofluorescence and crude PD31 nuclear extracts for Western Blot.

Applications

Suitable for use in Immunofluorescence, Western Blot and Immunohistochemistry (paraffin-embedded sections). Other applications not tested.

Recommended Dilution

Optimal dilutions to be determined by the researcher.

Storage and Stability

May be stored at 4°C for short-term only. For long-term storage and to avoid repeated freezing and thawing, add sterile 40-50%glycerol, aliquot and store at -20°C. Aliquots are stable for at least 12 months at -20°C. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap. Further dilutions can be made in assay buffer.

Immunogen

A fusion protein containing amino acids 284-709 of human nucleolin.

Formulation

As reported

Purity

Whole antisera

Specificity

This antibody is specific for nucleolin protein. Species Crossreactivity: Human and mouse. Other species have not been tested.

Product Type

Pab

Source

human

Isotype

IgG

Grade

Serum

Applications

IF IHC WB

Crossreactivity

Hu Mo

Storage

-20°C

Reference

1. Hanakahi, L.A., et al. Nucleolin is one component of the B-cell-specific transcription factor and switch region binding protein, LR1. PNAS. 94: 3605-3610 (1997). (Human)
2. Huddelson, J.P., et al. Upregulation of the KLF2 transcription factor by fluid shear stress requires nucleolin. J. Biol. Chem. 2006.
3. Huddleson, J. P., Ahmad, N., and Lingrel, J. B. (2006) Up-regulation of the KLF2 Transcription Factor by Fluid Shear Stress Requires Nucleolin, 281, 15121-15128.
4. Jin, J., Jane Li, G., Davis, J., Zhu, D., Wang, Y., Pan, C., and Zhang, J. (2007) Identification of novel proteins interacting with both a-synuclein and DJ-1, M600182-MCP600200.
5. Novoselov, S. V., Kryukov, G. V., Xu, X.-M., Carlson, B. A., Hatfield, D. L., and Gladyshev, V. N. (2007) Selenoprotein H is a nucleolar thioredoxin-like protein with a unique expression pattern, M701605200.