

NUCLEOLAR-ID™ GREEN DETECTION KIT

Nucleolar-ID™ Green Detection Kit

ENZ-51009

500 Reactions

HIGHLIGHT

- Compatible with common live-cell nuclear counterstains (Hoechst 33342, Draq5™, Vybrant® DyeCycle™ Ruby, Nuclear-ID™ Red dyes)
- High resistance to photobleaching and concentration quenching, ensuring strong, consistent fluorescence signal, even after extended viewing periods
- Validated for utility in live cell imaging applications, demonstrating appropriate response to treatment with well-characterized organelle-perturbation agents
- Stringently manufactured, to control and eliminate non-specific assay artifacts

Enzo Life Sciences' Nucleolar-ID™ Green Detection Kit contains a proprietary dye suitable for live-cell staining of nucleoli. The dye allows examination of nucleolar dynamic changes in intracellular distribution, trafficking and localization arising from biological processes such as the cell cycle and ribosome biogenesis. The kit is compatible with most fluorescence detection systems, including conventional and confocal fluorescence microscopes, as well as High Content Screening (HCS) platforms.

The kit has been specifically designed for visualizing nucleoli in living cells. The dye in the kit is resistant to photobleaching, facilitating its use in imaging applications. This nucleolar dye may be used in conjunction with common live-cell nuclear counterstains such as Hoechst 33342, Draq5™, Vybrant® DyeCycle™ Ruby and ENZO Nuclear-ID™ Red dye. A control nucleolar perturbation agent, actinomycin D, is provided for monitoring changes in nucleolar dynamics. Potential applications for this kit include monitoring impaired ribosome biogenesis, inhibition of transcription, cell cycle dynamics and cellular stress, as well as the distribution, trafficking and dynamics of nucleolar proteins, the distribution of viral proteins and, potentially, as an aid to identify cancer cells.

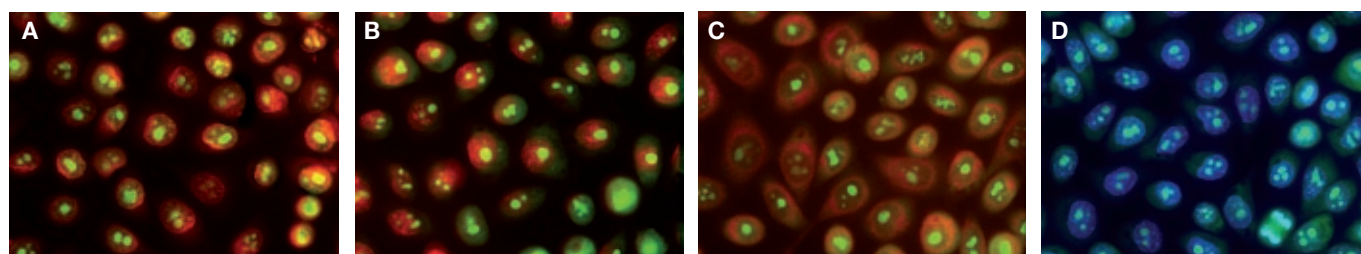


FIGURE 1: Nucleolar-ID™ Green dye stained live U2OS cells counterstained with Nuclear-ID™ Red (A), Draq5™(B), Vybrant® DyeCycle™ Ruby (C), and Hoechst 33342 (D). Nucleoli appear as green structures contrasted against the selected nuclear counterstain by fluorescence microscopy. As an RNA stain, the Nucleolar-ID™ Green dye displays some cytoplasmic staining as well, but the nuclear counterstain facilitates unambiguous identification of the nucleoli as green fluorescence signal within the confines of the highlighted nuclear fluorescence signal.

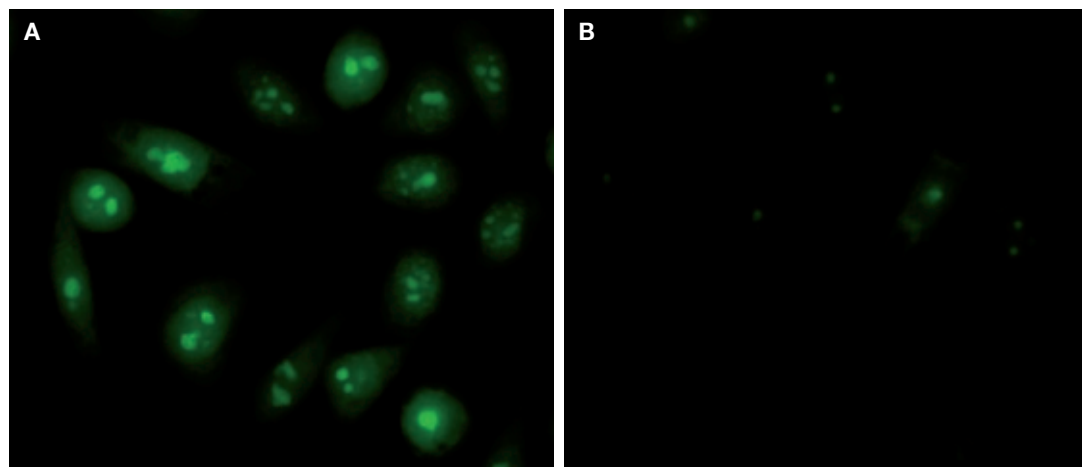


FIGURE 2: Cells stained with Nucleolar-ID™ Green Detection Reagent show maximal fluorescence signal within the nucleoli and faint fluorescence throughout the nucleus and cytoplasm, as shown in panel A. When the cells are treated with low doses of actinomycin D, loss of nucleolar staining is observed, as shown in panel B. Counterstaining with Nuclear-ID™ Red Detection Reagent facilitates highlighting the nucleoli relative to the weak cytoplasmic staining.

Related Products

Product	Prod. No.	Size
Total Nuclear-ID™ Green/Red Nucleolar/Nuclear Detection Kit	ENZ-51006	500 Reactions
GFP-Certified™ Lyso-ID™ Red Lysosomal Detection Kit	ENZ-51005	500 Reactions
GFP-Certified™ Mito-ID™ Red Mitochondrial Detection Kit	ENZ-51007	500 Reactions
Acridine Orange (Ultra Pure)	ENZ-52405	100 mg
DAPI (Ultra Pure)	ENZ-52404	100 mg
Hoechst 33258 (Ultra Pure)	ENZ-52402	100 mg
Hoechst 33342 (Ultra Pure)	ENZ-52401	100 mg
Propidium Iodide (Ultra Pure)	ENZ-52403	100 mg

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