



PRODUCT DATA SHEET

Product: P105 (PANA), clone 2B3

Cat. No: MC-549 (100 µg)

Background:

Protein p105, found in all human cells, is a proliferation-associated nuclear antigen which is absent in non-cycling cells in G₀. It is a protein component of nuclear spliceosomes, a site of RNA splicing. During G₂ and mitosis, p105 is dramatically increased, possibly due to the unmasking of nucleolar antigen resulting in a large accumulation of antigen in the mitotic cytoplasm.

Specificity:

On paraformaldehyde fixed human cells, 2B3 produces a speckled nuclear staining pattern in cycling cells. Cells in mitosis show a very bright homogeneous pattern in the mitotic cytoplasm. Chromosomes show a halo pattern of staining and the mitotic spindle appears unstained. Immunogold electron microscopy demonstrates specific staining of nuclear interchromatin granules (spliceosomes).

Species Reactivity:

Human, other species not tested.

Ig Isotype:

IgM

Format:

100 µg purified, lyophilized.

Storage and Stability:

Stable for two months when stored at +4°C. For longer storage, aliquot and store at -20°C. Avoid repeat freeze / thaw cycles.

Applications and Suggested Dilutions:

- Flow Cytometry: quantitation of mitotic index (on fixed permeable cells)
- Immunohistochemistry: Formalin & paraffin-embedded tissue sections will stain after pepsin digestion.
- Western blot

The optimal dilution for a specific application should be determined by the researcher.

Limitations:

For *in vitro* research use only. Not for use in diagnostics or in humans.

Warranty:

No warranties, expressed or implied, are made regarding the use of this product. KAMIYA BIOMEDICAL COMPANY is not liable for any damage, personal injury, or economic loss caused by this product.