



PRODUCT DATA SHEET

Product: Anti-14-16 kDa Nuclear Antigen, Clone IPO-38

Cat. No: MC-705 (100 µg)

Background:

The antibody recognizes a nuclear antigen that is present in the cytoplasm and nuclei of proliferating cells (paraformaldehyde fixation, Triton X-100 permeabilization). Antigen is absent from non-stimulated lymphocytes of healthy human donors, but is present in early G1 stage cells after 12 hours of stimulation with PHA. An increase of 400% is observed in cells in mitosis (determined by analysis of K562 cells synchronized with colcemide). IPO-38 does not block binding of the Ki-67 antibody.

Specificity:

The antibody recognizes a 14-16 kDa nuclear antigen (determined by Western blot analysis of Raji cells).

Species Reactivity:

Human and mouse (determined by IIF), others not tested.

Ig Isotype: IgM

Immunogen:

Hairy-cell leukemia cells

Hybridoma:

Mouse spleen cells fused with mouse myeloma P3.X63Ag8.653A

Format:

1 mg/ml antibody in PBS, pH 7.2, purified on protein A.

Storage and Stability:

+4°C short term, -20°C long term. Aliquot to avoid freeze/thaw cycles

Applications and Suggested Dilutions:

- ELISA
- Indirect Immunofluorescence
- Immunoprecipitation
- Immunohistochemistry: Frozen sections

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

Reference:

1. Sidorenko, S.P., Shlapatskaya, L.N. Vetrova, E.P., Yurchenko, O.V., Klenova, T.T., Mikhalap, S.V., Abramenko, I.V., and Gluzman, D.F. (1994) *Experimental Oncology* 16:145-150.

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.