

## AM33249PU-T

## Monoclonal Antibody to IPO-38 Proliferation marker - Purified

<b>Alternate names:</b>	IPO38
<b>Quantity:</b>	20 µg
<b>Concentration:</b>	0.2 mg/ml
<b>Background:</b>	IPO-38 antigen is present in the nuclei of proliferating cells such as Hodgkin's disease and non-Hodgkin's lymphomas, different forms of leukemias, breast and colorectal carcinomas, and PHA-stimulated lymphocytes. It is not expressed in the cells of non-stimulated lymphocytes and granulocytes. IPO-38 can be a useful marker of cell proliferation during monitoring of tumor progression.
<b>Host / Isotype:</b>	Mouse / IgM
<b>Recommended Isotype Controls:</b>	SM13P
<b>Clone:</b>	SPM260
<b>Immunogen:</b>	Spleen cells of a patient with hairy cell leukemia.
<b>Format:</b>	<b>State:</b> Liquid purified IgG fraction from Bioreactor Concentrate <b>Buffer System:</b> 10mM PBS <b>Preservatives:</b> 0.05% Sodium Azide <b>Stabilizers:</b> 0.05% BSA
<b>Applications:</b>	<b>Flow Cytometry:</b> 0.5-1 µg/10 <sup>6</sup> cells. <b>Immunofluorescence:</b> 0.5-1 µg/ml. <b>Immunohistochemistry on Formalin-Fixed Paraffin Sections:</b> 0.5-1 µg/ml for 30 minutes at RT. Staining of formalin-fixed tissues requires boiling tissue sections in 10mM Citrate, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes. <b><u>Positive Control:</u></b> Raji and PHA-stimulated (>12 hours) human or mouse lymphocytes. Breast and colorectal carcinomas. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	Recognizes a protein of 14-16kDa, which is a novel nuclear antigen of proliferating cells. IPO-38 antigen is present in the nuclei of proliferating cells such as Hodgkin's disease and non-Hodgkin's lymphomas, different forms of leukemias, breast and colorectal carcinomas, and PHA-stimulated lymphocytes. It is not expressed in the cells of non-stimulated lymphocytes and granulocytes. IPO-38 can be a useful marker of cell proliferation during monitoring of tumor progression. <b><u>Cellular Localization:</u></b> Nuclear.
<b>Species Reactivity:</b>	<b>Tested:</b> Human, Mouse, Rat.
<b>Storage:</b>	Store undiluted at 2-8°C. <b>DO NOT FREEZE!</b> Shelf life: one year from despatch.

### General Readings:

1. Sidorenko SP, Vetrova EP, Iurchenko OV, Shlapatskaia LN, Berdova AG, Elenskaia AM, et al. [Monoclonal antibodies of the IPO series in studying and diagnosing malignant lymphoproliferative diseases]. *Gematol Transfuziol.* 1990 Apr;35(4):19-22. PubMed PMID: 2373343.
2. Mikhilap SV et al. Monoclonal antibody IPO-38 recognizes a novel nuclear antigen of proliferating cells. In Kishimoto T et al eds. *Leukocyte Typing VI*, p609-610, Garland Publishing, New York, 1997.
3. Mathews MB, Bernstein RM, Franza BR, Garrels JI. Identity of the proliferating cell nuclear antigen and cyclin. *Nature.* 1984 May 24-30;309(5966):374-6. PubMed PMID: 6145097.

### Pictures:

Formalin-paraffin Human Tonsil stained with IPO38 Antibody Cat.-No AM33249PU (Clone SPM260).

