**Monoclonal Antibody to Ki-67 - Supernatant**

**Alternate names:** Ki67 antigen, MKI67, Proliferation marker  
**Catalog No.:** AM01167SU-N  
**Quantity:** 2 ml  
**Background:**  
Ki-67 is a nuclear protein that is expressed in proliferating cells and may be required for maintaining cell proliferation. Ki-67 has been used as a marker for cell proliferation of solid tumors and some hematological malignancies. A correlation has been demonstrated between Ki-67 index and the histopathological grade of neoplasms. Assessment of Ki-67 expression in renal and ureter tumors shows a correlation between tumor proliferation and disease progression, thus making it possible to differentiate high-risk patients. Ki-67 expression may also prove to be important for distinguishing between malignant and benign peripheral nerve sheath tumors.

**Uniprot ID:** P46013  
**NCBI:** NP_001139438.1  
**GenelID:** 4288  
**Host / Isotype:** Mouse / IgG1  
**Clone:** Ki67  
**Immunogen:** Human tumour cell line. Spleen cells from immunised BALB/c mice were fused with cells of the mouse X63-Ag 8.653 myeloma cell line.

**Format:**  
State: Liquid Tissue Culture Supernatant containing 0.2M Tris/HCl, pH 7.4 and 5-10% foetal calf serum with 0.09% Sodium Azide.

**Applications:**  
Immunofluorescence.  
Flow Cytometry: Use 10 µl of Neat-1/5 diluted antibody to label 10e6 cells in 100 µl (Cell permeabilisation is required).  
Immunohistochemistry on Frozen Sections: 1/10-1/50.  
Recommended Positive Control: Tonsil.  
Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

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For research and in vitro use only. Not for diagnostic or therapeutic work.  
Material Safety Datasheets are available at www.acris-antibodies.com or on request.  
Antibody Hotline - Technical Questions - Antibody Location Service  
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com
Specificity: This antibody reacts with a nuclear antigen that is expressed by proliferating cells in all phases of the active cell cycle (G1, S, G2 and M phase). It is absent in resting (Go) cells. The monoclonal antibody is useful in establishing the cell growing fraction in neoplasms (immunohistologically quantified by determining the number of Ki67-positive cells among the total number of resting cells = Ki67 index). In neoplastic tissues the prognostic value is comparable to the tritiated thymidinelabelling index. The correlation between low Ki67 index and histologically low-grade tumours is strong.

Species: Human.
Other species not tested.

Storage: Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: one year from despatch.

General Readings:

Pictures: Figure 1. Staining of MCF-7 cells with Mouse anti Human Ki-67 (AM01167SU, Green) counter stained with Phalloidin (Red) and Hoechst (Blue)