

## 36-2771: Anti-Ki-67 (Proliferating Cell Marker) Monoclonal Antibody(Clone: MKI67/2461)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	MKI67/2461
<b>Application :</b>	FACS,IF,WB,IHC
<b>Reactivity :</b>	Human
<b>Gene :</b>	MKI67
<b>Gene ID :</b>	4288
<b>Uniprot ID :</b>	P46013
<b>Alternative Name :</b>	KI-67; Ki67; KI-67 Antigen (KIA); MKI67; Proliferation related Ki-67 antigen
<b>Isotype :</b>	Mouse IgG1, kappa
<b>Immunogen Information :</b>	Recombinant fragment of human Ki67 protein (around aa 2293-2478) (exact sequence is proprietary)

### Description

Ki-67 antigen is a nuclear, non-histone protein that is present in all stages of the cell cycle except G0. This characteristic makes Ki-67 an excellent marker for proliferating cells and is commonly used as one of the prognostic factors in cancer studies. A correlation has been demonstrated between Ki-67 index and the histo-pathological 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. Ki-67 labeling index has been shown to be a prognostic marker in a number of neoplasms including grade II astrocytoma, oligodendroglioma, colon carcinoma, and breast carcinoma. In general, Ki-67 is a good marker of proliferating cell populations.

### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	200 µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
<b>Storage condition :</b>	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous.

### Application Note

Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); Western Blot (1-2ug/ml); ,Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT),(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95 &degC followed by cooling at RT for 20 minutes),

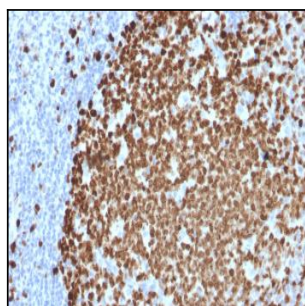


Fig. 1: Formalin-fixed, paraffin-embedded human Tonsil stained with Ki67 Mouse Monoclonal Antibody (MKI67/2461).

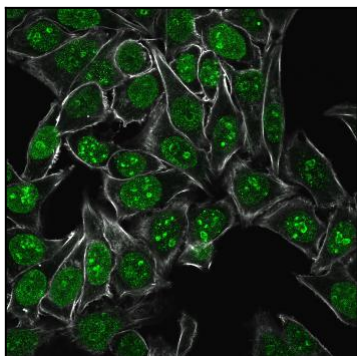


Fig. 2: Confocal Immunofluorescence of HeLa cells Ki67 Mouse Monoclonal Antibody (MKI67/2461) labeled with CF488 (Green); WGA (Red) is used to label the membrane.

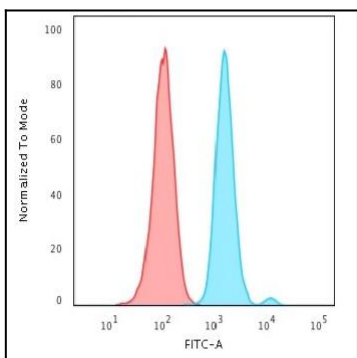


Fig. 3: Flow Cytometric Analysis of HeLa cells using Ki67 Mouse Monoclonal Antibody (MKI67/2461). Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

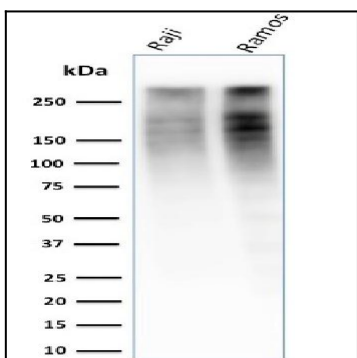


Fig. 4: Western Blot Analysis of Raji and Ramos cell lysate using Ki67 Mouse Monoclonal Antibody (MKI67/2461).

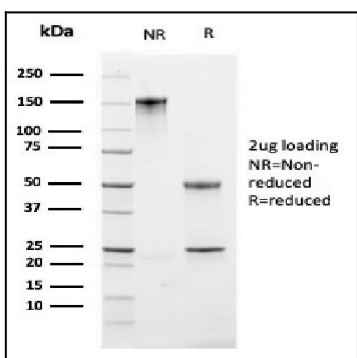


Fig. 5: SDS-PAGE Analysis Purified Ki67 Mouse Monoclonal Antibody (MKI67/2461). Confirmation of Purity and Integrity of Antibody.

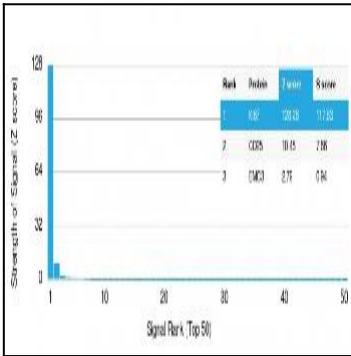


Fig. 6: Analysis of Protein Array containing more than 19,000 full-length human proteins using Ki67 Mouse Monoclonal Antibody (MKI67/2461). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.