

36-2774: Anti-Ki-67 (Proliferating Cell Marker) Monoclonal Antibody(Clone: MKI67/2465)

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| Clonality : | Monoclonal |
| Clone Name : | MKI67/2465 |
| Application : | FACS,IHC |
| Reactivity : | Human |
| Gene : | MKI67 |
| Gene ID : | 4288 |
| Uniprot ID : | P46013 |
| Alternative Name : | KI-67; Ki67; KI-67 Antigen (KIA); MKI67; Proliferation related Ki-67 antigen |
| Isotype : | Mouse IgG2b, kappa |
| Immunogen Information : | Recombinant fragment (around aa 2293-2478) of human Ki67 protein (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

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| Amount : | 20 µg / 100 µg |
| Content : | 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. |
| Storage condition : | 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); 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°C followed by cooling at RT for 20 minutes);

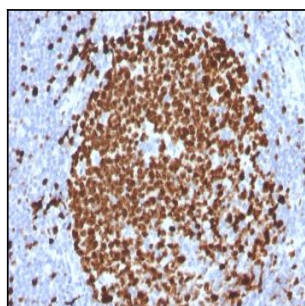


Fig. 1: Formalin-fixed, paraffin-embedded human Tonsil stained with Ki67 Mouse Monoclonal Antibody (MKI67/2465).

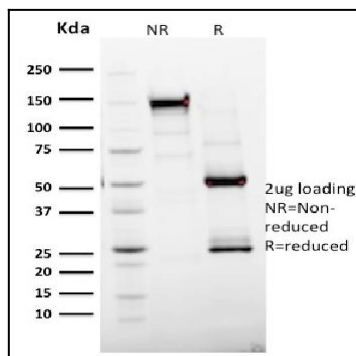


Fig. 2: SDS-PAGE Analysis Purified Ki67 Mouse Monoclonal Antibody (MKI67/2465). Confirmation of Purity and Integrity of Antibody.

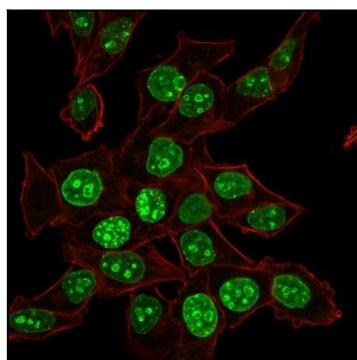


Fig. 3: Confocal Immunofluorescence of HeLa cells Ki67 Mouse Monoclonal Antibody (MKI67/2465). labeled with CF488 (Green); Phalloidin is used to label the membrane.

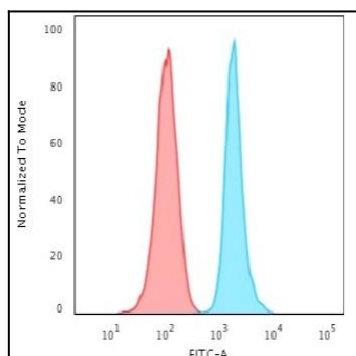


Fig. 4: Flow Cytometric Analysis of HeLa cells using Ki67 Mouse Monoclonal Antibody (MKI67/2465). Goat anti-Mouse IgG-CF488 (Blue); Isotype Control (Red).

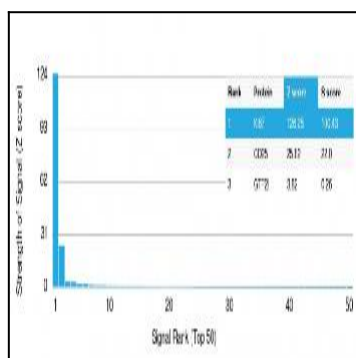


Fig. 5: Analysis of Protein Array containing more than 19,000 full-length human proteins using Ki67 Mouse Monoclonal Antibody (MKI67/2465). Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary 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 be 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.