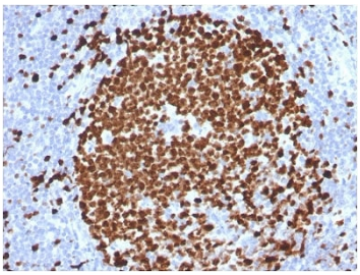
Ki-67 Antibody [clone MKI67/2465] (V3866)

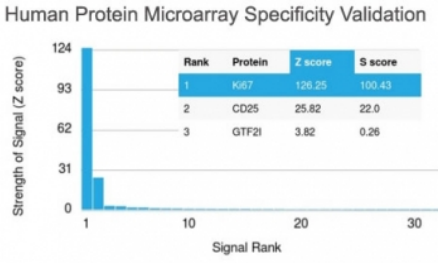
Catalog No.	Formulation	Size
V3866-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V3866-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V3866SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

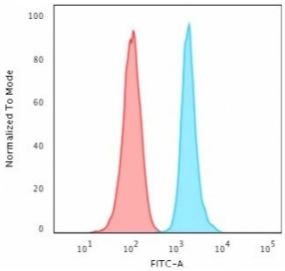
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b, kappa
Clone Name	MKI67/2465
Purity	Protein G affinity chromatography
UniProt	P46013
Localization	Nuclear
Applications	Flow Cytometry : 1-2ug/million cells Immunofluorescence : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml for 30 min at RT
Limitations	This Ki-67 antibody is available for research use only.



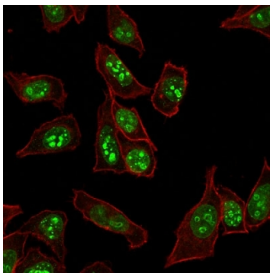
IHC testing of FFPE human tonsil stained with Ki-67 antibody (MKI67/2465). Required HIER: boiling tissue sections in 10mM citrate buffer, pH6, for 10-20 min followed by cooling at RT for 20 min.



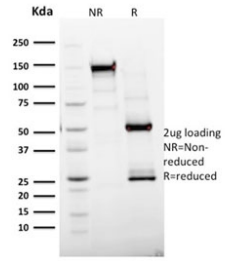
Analysis of HuProt(TM) microarray containing more than 19,000 full-length human proteins using Ki-67 antibody (clone MKI67/2465). These results demonstrate the foremost specificity of the MKI67/2465 mAb.
Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt(TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt(TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



FACS testing of human HeLa cells with Ki-67 antibody (blue, clone MKI67/2465) and isotype control (red). Cells were trypsinized and 2-4% PFA-fixed prior to staining.



Immunofluorescent staining of human HeLa cells with Ki-67 antibody (green, clone MKI67/2465) and Phalloidin (red, membrane stain).



SDS-PAGE analysis of purified, BSA-free Ki-67 antibody (clone MKI67/2465) as confirmation of integrity and purity.

Description

Ki67 antigen is a nuclear, non-histone protein that is present in all stages of the cell cycle except G0. This characteristic makes Ki67 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 Ki67 index and the histo-pathological grade of neoplasms. Assessment of Ki67 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. Ki67 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, Ki67 is a good marker of proliferating cell populations.

Application Notes

Optimal dilution of the Ki-67 antibody should be determined by the researcher.

Immunogen

A portion of amino acids 2293-2478 was used as the immunogen for the Ki-67 antibody.

Storage

Store the Ki-67 antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).